Amendments to the Specification

Please amend the specification as follows:

Please replace the Sequence Listing submitted on October 16, 2006 with the new Sequence Listing submitted herewith.

Please delete the first paragraph at page 1, as amended by way of the Preliminary Amendment filed on March 4, 2002, with the following paragraph:

This application is a divisional application of U.S. application serial no. 09/373,432, filed on August 13, 1999, now U.S. 6,459,996, which claims priority to U.S. Provisional Application No. 60/096,452, filed August 13, 1998. The contents of all of which are hereby incorporated by reference.

Please delete the paragraph on page 7, lines 7-12 and replace it with the following paragraph:

Figure 4: Quanta was used to superimpose *E. coli* UDP-galactose 4 epimerase (GaIE) (SEQ ID NO: 1) and *E. coli* GDP-fucose synthetase (coli_GFS) (SEQ ID NO: 2) as shown in figure 3. The two sequences were then aligned based upon the structural alignment and the human GDP-fucose synthetase (human_GFS) (SEQ ID NO: 3) amino acid sequence was aligned to this pair. Identical residues are boxed in red, homologous in grey, and residues shared between two of the three proteins are boxed in blue.

Please replace the paragraph beginning at page 21, after "*Data collection and processing*" with the following paragraph:

Diffraction data were collected using a Raxis II detector mounted on an RU200 X-ray generator running at 50 KV, 100 mA, with the MSC/Yale focusing mirrors. All data collections were performed at 18C with exposure times between 8 and 12 minutes per one degree oscillation. These data were reduced with DENZO/SCALEPACK [44] giving unit cell parameters of a=104.2 Å and c=74.9 Å and symmetry P3₂21 or P3₁21. The CCP4 suite of programs [20] were used for all further data processing leading up to heavy atom refinement.

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Please replace the paragraph beginning at page 23, after "Model building and refinement" with the following paragraph:

The model was built into the experimental maps using QUANTA (Molecular Simulations Inc.). Large pieces of GalE were used to assist with the model building by changing the side chain identities and moving residues and secondary structural elements. The resulting model had no breaks in the backbone and was refined using XPLOR positional, torsion angle dynamics, and B-factor refinement. The final model consists of residues Lys3 to Phe319 with the first and last two residues not visible in the electron density maps. The side chains of Arg36, Asp37, Arg55 and His174 are also disordered and were modeled as alanines in the final structure. The side chains of Arg36 and Asp37 became well ordered upon binding NADP+ or NADPH and were therefore included in those complex models.

Please replace the paragraph beginning at page 23, after "Obtaining NADP and NADPH bound complexes" with the following paragraph:

The complex of GFS with NADP+ was obtained by placing the crystals into 4.2M sodium formate, 1 mM NADP+ for 20 hours. The resulting complex was found to be isomorphous with cell parameters a=104.2 Å and c=75.1 Å. After rigid body refinement of the protein model in XPLOR [48] clear density was identified for the bound ligand in both 2Fo-Fc and Fo-Fc electron density maps. A model of the complex was built using QUANTA and side chains were adjusted to fit the new electron density. Refinement of the complex was performed using positional and B-factor refinement in XPLOR, giving a final model with statistics shown below.

Please insert the following text at page 24, after "(entry codes 1GFS, 1FXS, and 1BSV)":

```
17-AUG-98 1GFS
HEADER
         OXIDOREDUCTASE
TITLE
         GDP-FUCOSE SYNTHETASE FROM E. COLI
COMPND
        MOL_ID: 1;
        2 MOLECULE: GDP-FUCOSE SYNTHETASE;
COMPND
COMPND 3 CHAIN: A;
       4 SYNONYM: WCAG, GDP-4-KETO 6-DEOXY-MANNOSE 3,5-EPIMERASE 4-
COMPND
COMPND 5 REDUCTASE;
COMPND 6 ENGINEERED: YES
SOURCE MOL ID: 1;
SOURCE 2 ORGANISM SCIENTIFIC: ESCHERICHIA COLI;
SOURCE 3 STRAIN: K12;
       4 CELLULAR_LOCATION: CYTOPLASM;
SOURCE
```

```
SOURCE 5 GENE: WCAG;
SOURCE 6 EXPRESSION SYSTEM: ESCHERICHIA COLI;
SOURCE 7 EXPRESSION SYSTEM STRAIN: BL21;
SOURCE 8 EXPRESSION_SYSTEM_CELLULAR_LOCATION: CYTOPLASM;
SOURCE 9 EXPRESSION_SYSTEM_PLASMID: PSEWCAG;
SOURCE 10 EXPRESSION_SYSTEM_GENE: WCAG
KEYWDS
        EPIMERASE-REDUCTASE, NADP, GDP-FUCOSE, LIPOPOLYSACCHARIDE
KEYWDS 2 BIOSYNTHESIS
EXPDTA X-RAY DIFFRACTION
AUTHOR W.S.SOMERS, M.L.STAHL, F.X.SULLIVAN
REVDAT 2 12-MAY-00 1GFS 1 HEADER DBREF
REVDAT 1 17-AUG-99 1GFS
                              0
JRNL
            AUTH W.S.SOMERS, M.L.STAHL, F.X.SULLIVAN
JRNL
            TITL GDP-FUCOSE SYNTHETASE FROM ESCHERICHIA COLI:
           TITL 2 STRUCTURE OF A UNIQUE MEMBER OF THE SHORT-CHAIN
JRNL
          TITL 3 DEHYDROGENASE/REDUCTASE FAMILY THAT CATALYZES TWO
          TITL 4 DISTINCT REACTIONS AT THE SAME ACTIVE SITE.
         REF STRUCTURE V
REFN ASTM STRUE6 UK ISSN 0969-2126
JRNL
                                          V. 6 1601 1998
JRNL
REMARK 1
REMARK 2
REMARK 2 RESOLUTION. 2.20 ANGSTROMS.
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : X-PLOR 3.843
REMARK 3 AUTHORS : BRUNGER
REMARK
        3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.20
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 14.00
REMARK 3 DATA CUTOFF (SIGMA(F)): 2.000
REMARK 3 DATA CUTOFF HIGH (ABS(F)): NULL
REMARK 3 DATA CUTOFF LOW (ABS(F)): NULL
REMARK 3 COMPLETENESS (WORKING+TEST) (%): 94.8
REMARK 3 NUMBER OF REFLECTIONS
                                               : 22894
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK 3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK 3 R VALUE (WORKING SET): 0.171
REMARK 3 FREE R VALUE
                                            : 0.214
REMARK 3 FREE R VALUE TEST SET SIZE (%): 5.000
REMARK 3 FREE R VALUE TEST SET COUNT
                                          : NULL
REMARK 3 ESTIMATED ERROR OF FREE R VALUE : NULL
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED : NULL
REMARK 3 BIN RESOLUTION RANGE HIGH (A): NULL
REMARK 3 BIN RESOLUTION RANGE LOW (A): NULL
REMARK 3 BIN RESOLUTION RANGE LOW
                                             (A) : NULL
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%): NULL
REMARK 3 REFLECTIONS IN BIN (WORKING SET): NULL
REMARK 3 BIN R VALUE (WORKING SET): NULL REMARK 3 BIN FREE R VALUE : NULL
REMARK 3 BIN FREE R VALUE TEST SET SIZE (%): NULL REMARK 3 BIN FREE R VALUE TEST SET COUNT : NULL
REMARK 3 ESTIMATED ERROR OF BIN FREE R VALUE : NULL
```

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```
REMARK
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 PROTEIN ATOMS : 2489
REMARK 3 NUCLEIC ACID ATOMS : NULL
REMARK 3 HETEROGEN ATOMS : NULL
REMARK 3 SOLVENT ATOMS
                                       : 80
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2): NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2): NULL
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2): NULL
REMARK 3 B22 (A**2): NULL
REMARK 3 B33 (A**2): NULL
REMARK 3 B12 (A**2): NULL
REMARK 3 B13 (A**2) : NULL
REMARK 3 B23 (A^{**}2) : NULL
REMARK 3
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT (A): NULL REMARK 3 ESD FROM SIGMAA (A): NULL
REMARK 3 LOW RESOLUTION CUTOFF
                                           (A) : NULL
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A): NULL
REMARK 3 ESD FROM C-V SIGMAA
                                            (A) : NULL
REMARK
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3 BOND LENGTHS (A): 0.008
REMARK 3 BOND ANGLES (DEGREES): 1.36
REMARK 3 DIHEDRAL ANGLES (DEGREES): NULL
REMARK 3 IMPROPER ANGLES (DEGREES): NULL
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL: NULL
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. RMS SIGMA
REMARK 3 MAIN-CHAIN BOND
                                           (A^{**2}) : NULL ; NULL
REMARK 3 MAIN-CHAIN ANGLE
                                           (A^{**2}) : NULL ; NULL
REMARK 3 SIDE-CHAIN BOND
                                           (A^{**2}) : NULL ; NULL
REMARK 3 SIDE-CHAIN ANGLE
                                           (A**2) : NULL ; NULL
REMARK
REMARK 3 NCS MODEL: NULL
REMARK 3
REMARK 3 NCS RESTRAINTS. RMS SIGMA, REMARK 3 GROUP 1 POSITIONAL (A): NULL; NULL REMARK 3 GROUP 1 B-FACTOR (A**2): NULL; NULL
                                                     RMS SIGMA/WEIGHT
REMARK 3
REMARK 3 PARAMETER FILE 1 : PARHCSDX.PRO
REMARK 3 PARAMETER FILE 2 : NULL
REMARK 3 TOPOLOGY FILE 1 : TOPHCSDX.PRO
REMARK 3 TOPOLOGY FILE 2 : NULL
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
REMARK
REMARK 4 1GFS COMPLIES WITH FORMAT V. 3.0, 1-DEC-2006
REMARK 4
```

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```
REMARK 4 THIS IS THE REMEDIATED VERSION OF THIS PDB ENTRY.
REMARK 4 REMEDIATED DATA FILE REVISION 3.100 (2007-03-17)
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 DATE OF DATA COLLECTION : FEB-1997
REMARK 200 TEMPERATURE
REMARK 200 TEMPERATURE (KELVIN): 291.0
REMARK 200 PH
                                          : 7.00
REMARK 200 NUMBER OF CRYSTALS USED
                                          : 2
REMARK 200
REMARK 200 SYNCHROTRON (Y/N): N
REMARK 200 RADIATION SOURCE : ROTATING ANODE
- NIII.T.
REMARK 200 BEAMLINE
                                           : NULL
                                     : RIGAKU/MSC RU-H2R
REMARK 200 X-RAY GENERATOR MODEL : REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE
                                    (A) : 1.5418
REMARK 200 MONOCHROMATOR
                                          : NI FILTER
REMARK 200 OPTICS
                                           : MIRRORS
REMARK 200
REMARK 200 DETECTOR TYPE
                                          : IMAGE PLATE AREA DETECTOR
REMARK 200 DETECTOR MANUFACTURER : RIGAKU
REMARK 200 INTENSITY-INTEGRATION SOFTWARE: DENZO
REMARK 200 DATA SCALING SOFTWARE : SCALEPACK
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 23163
REMARK 200 RESOLUTION RANGE HIGH (A): 2.200 REMARK 200 RESOLUTION RANGE LOW (A): 14.00
                                      (A) : 14.000
REMARK 200 REJECTION CRITERIA (SIGMA(I)): 0.000
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%): 95.9
REMARK 200 DATA REDUNDANCY
REMARK 200 R MERGE
                                       (I) : 0.05200
REMARK 200 R SYM
                                       (I) : NULL
REMARK 200 <I/SIGMA(I) > FOR THE DATA SET : 33.1000
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A): 2.20
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A): 2.28
REMARK 200 COMPLETENESS FOR SHELL (%): 75.8
REMARK 200 DATA REDUNDANCY IN SHELL
                                      : NULL
REMARK 200 R MERGE FOR SHELL (I): NULL
REMARK 200 <I/SIGMA(I) > FOR SHELL (I): NULL : 4.500 REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MIRAS
REMARK 200 SOFTWARE USED: SHARP, X-PLOR 3.843
REMARK 200 STARTING MODEL: NULL
REMARK 200
REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS (%): 62.07
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): 3.24
REMARK 280
```

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```
REMARK 280 CRYSTALLIZATION CONDITIONS: PH 7.00
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 32 2 1
REMARK 290
REMARK 290
                       SYMOP SYMMETRY
REMARK 290 SYMOP SYMMETRY
REMARK 290 NNNMMM OPERATOR
REMARK 290 1555 X,Y,Z
REMARK 290 2555 -Y,X-Y,2/3+Z
REMARK 290 3555 -X+Y,-X,1/3+Z
REMARK 290 4555 Y,X,-Z
REMARK 290 5555 X-Y,-Y,1/3-Z
REMARK 290 6555 -X,-X+Y,2/3-Z
REMARK 290
REMARK 290 WHERE NNN -> OPERATOR NUMBER
REMARK 290
                     MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
REMARK 290 RELATED MOLECULES.
REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000
                                                                                             0.00000
REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000
REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000
REMARK 290 SMTRY1 2 -0.500000 -0.866025 0.000000 0.000000
REMARK 290 SMTRY2 2 0.866025 -0.500000 0.000000 0.000000
REMARK 290 SMTRY3 2 0.000000 0.000000 1.000000 49.93333
REMARK 290 SMTRY1 3 -0.500000 0.866025 0.000000 0.000000
REMARK 290 SMTRY2 3 -0.866025 -0.500000 0.000000
                                                                                           0.00000
REMARK 290 SMTRY3 3 0.000000 0.000000 1.000000
                                                                                         24.96667
REMARK 290 SMTRY1 4 -0.500000 0.866025 0.000000
                                                                                           0.00000
REMARK 290 SMTRY2 4 0.866025 0.500000 0.000000
                                                                                           0.00000

      REMARK 290
      SMTRY2
      4
      0.866025
      0.500000
      0.000000
      0.00000

      REMARK 290
      SMTRY3
      4
      0.000000
      0.000000
      -1.000000
      0.00000

      REMARK 290
      SMTRY1
      5
      1.000000
      0.000000
      0.000000
      0.00000

      REMARK 290
      SMTRY2
      5
      0.000000
      -1.000000
      0.00000
      0.00000

      REMARK 290
      SMTRY3
      5
      0.000000
      -0.866025
      0.000000
      0.00000

      REMARK 290
      SMTRY1
      6
      -0.866025
      0.500000
      0.000000
      0.00000

      REMARK 290
      SMTRY3
      6
      0.000000
      0.000000
      -1.000000
      49.93333

REMARK 290
REMARK 290 REMARK: NULL
REMARK 300
REMARK 300 BIOMOLECULE: 1
REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT
REMARK 300 WHICH CONSISTS OF 1 CHAIN(S). SEE REMARK 350 FOR
REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).
REMARK 350
REMARK 350 GENERATING THE BIOMOLECULE
REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN
REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE
REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS
REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND
REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.
REMARK 350
REMARK 350 BIOMOLECULE: 1
REMARK 350 APPLY THE FOLLOWING TO CHAINS: A
```

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Serial No.: 10/090,879
                                - 8 -
                                                          Art Unit: 1656
REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000
                                                           0.00000
REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000
                                                           0.00000
REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000
                                                           0.00000
REMARK 350 BIOMT1 2 -0.500000 0.866025 0.000000
                                                           0.00000
REMARK 350 BIOMT2 2 0.866025 0.500000 0.000000
                                                           0.00000
           BIOMT3 2 0.000000 0.000000 -1.000000
REMARK 350
                                                           0.00000
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465
           M RES C SSSEQI
           MET A 1
REMARK 465
REMARK 465
            SER A
                       2
REMARK 465
            ARG A 320
REMARK 465
            GLY A 321
REMARK 470
REMARK 470 MISSING ATOM
REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS (M=MODEL NUMBER;
REMARK 470 RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER;
REMARK 470 I=INSERTION CODE):
REMARK 470 M RES CSSEQI ATOMS
REMARK 470 ARG A 36
                                            CZ NH1 NH2
                         CG CD
                                      NE
REMARK 470 ASP A 37 CG OD1
REMARK 470 ARG A 45 CG CD
                                      OD2
                                      NE CZ
NE CZ
                                                 NH1
                                                        NH2
            ARG A 55 CG
REMARK 470
                                CD
                                                 NH1
                                                        NH2
            HIS A 174 CG ND1 CD2 CE1 NE2
REMARK 470
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND LENGTHS
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X, I3, 1X, 2 (A3, 1X, A1, I4, A1, 1X, A4, 3X), F6.3)
REMARK 500
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1 RES CSSEQI ATM2 DEVIATION
REMARK 500 MET A 162 SD MET A 162 CE -0.084
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND ANGLES
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X, I3, 1X, A3, 1X, A1, I4, A1, 3(1X, A4, 2X), 12X, F5.1)
REMARK 500
```

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```
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1 ATM2
                                  ATM3
REMARK 500
           VAL A 32 N - CA - C
                                        ANGL. DEV. = -8.5 DEGREES
            LYS A 65
                           - CA - C
REMARK 500
                        Ν
                                        ANGL. DEV. =-10.2 DEGREES
            ASP A 98
                          - CA - C
                                        ANGL. DEV. = 10.5 DEGREES
REMARK 500
                        N
           VAL A 99
                          - CA - C ANGL. DEV. = -9.0 DEGREES
REMARK 500
                       N
REMARK 500
          LEU A 240
                       N - CA - C ANGL. DEV. = -8.9 DEGREES
                       N - CA - C ANGL. DEV. = 9.3 DEGREES
REMARK 500
           SER A 241
                      N - CA - C ANGL. DEV. =-10.6 DEGREES
REMARK 500
           ASP A 286
REMARK 525
REMARK 525 SOLVENT
REMARK 525 THE FOLLOWING SOLVENT MOLECULES LIE FARTHER THAN EXPECTED
REMARK 525 FROM THE PROTEIN OR NUCLEIC ACID MOLECULE AND MAY BE
REMARK 525 ASSOCIATED WITH A SYMMETRY RELATED MOLECULE (M=MODEL
REMARK 525 NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE
REMARK 525 NUMBER; I=INSERTION CODE):
REMARK 525
REMARK 525 M RES CSSEQI
REMARK 525
          нон 20
                             DISTANCE = 5.47 ANGSTROMS
          нон 27
                            DISTANCE = 6.07 ANGSTROMS
REMARK 525
REMARK 525 HOH 59
                           DISTANCE = 5.04 ANGSTROMS
REMARK 525 HOH 76
                           DISTANCE = 5.01 ANGSTROMS
DBREF 1GFS A 1 321 UNP P32055 FCL ECOLI
SEQRES 1 A 321 MET SER LYS GLN ARG VAL PHE ILE ALA GLY HIS ARG GLY
       2 A 321 MET VAL GLY SER ALA ILE ARG ARG GLN LEU GLU GLN ARG
SEQRES
       3 A 321
SEQRES
                 GLY ASP VAL GLU LEU VAL LEU ARG THR ARG ASP GLU LEU
SEQRES 4 A 321 ASN LEU LEU ASP SER ARG ALA VAL HIS ASP PHE PHE ALA
SEQRES 5 A 321 SER GLU ARG ILE ASP GLN VAL TYR LEU ALA ALA ALA LYS
SEQRES 6 A 321 VAL GLY GLY ILE VAL ALA ASN ASN THR TYR PRO ALA ASP
SEORES 7 A 321 PHE ILE TYR GLN ASN MET MET ILE GLU SER ASN ILE ILE
SEORES 8 A 321 HIS ALA ALA HIS GLN ASN ASP VAL ASN LYS LEU LEU PHE
SEORES 9 A 321 LEU GLY SER SER CYS ILE TYR PRO LYS LEU ALA LYS GLN
SEQRES 10 A 321 PRO MET ALA GLU SER GLU LEU LEU GLN GLY THR LEU GLU
SEQRES 11 A 321 PRO THR ASN GLU PRO TYR ALA ILE ALA LYS ILE ALA GLY
SEQRES 12 A 321 ILE LYS LEU CYS GLU SER TYR ASN ARG GLN TYR GLY ARG
SEQRES 13 A 321 ASP TYR ARG SER VAL MET PRO THR ASN LEU TYR GLY PRO
SEORES 14 A 321 HIS ASP ASN PHE HIS PRO SER ASN SER HIS VAL ILE PRO
SEQRES 15 A 321 ALA LEU LEU ARG ARG PHE HIS GLU ALA THR ALA GLN ASN
SEORES 16 A 321 ALA PRO ASP VAL VAL VAL TRP GLY SER GLY THR PRO MET
      17 A 321
                 ARG GLU PHE LEU HIS VAL ASP ASP MET ALA ALA ALA SER
SEORES
SEQRES 18 A 321
                ILE HIS VAL MET GLU LEU ALA HIS GLU VAL TRP LEU GLU
SEQRES 19 A 321 ASN THR GLN PRO MET LEU SER HIS ILE ASN VAL GLY THR
SEQRES 20 A 321 GLY VAL ASP CYS THR ILE ARG GLU LEU ALA GLN THR ILE
SEQRES 21 A 321 ALA LYS VAL VAL GLY TYR LYS GLY ARG VAL VAL PHE ASP
SEQRES 22 A 321 ALA SER LYS PRO ASP GLY THR PRO ARG LYS LEU LEU ASP
SEQRES 23 A 321 VAL THR ARG LEU HIS GLN LEU GLY TRP TYR HIS GLU ILE
SEQRES 24 A 321
                 SER LEU GLU ALA GLY LEU ALA SER THR TYR GLN TRP PHE
SEQRES 25 A 321 LEU GLU ASN GLN ASP ARG PHE ARG GLY
FORMUL 2 HOH *80 (H2 O)
                     14 LEU A
HELIX
          1 MET A
                                 23
                                                                     10
HELIX
        2
          2 SER A
                     44 SER A
                                 53
                                    1
                                                                     10
                                74
        3
           3 ILE A
                     69 THR A
HELIX
                                                                      6
HELIX
        4
           4 PRO A
                     76 ASN A
                                97
                                                                     22
HELIX
       5
          5 SER A 108
                        ILE A 110
                                                                      3
       6 6 GLU A 121 GLU A 123
HELIX
                                                                      3
```

HELIX	7 7	PRO A	131	TYR A	154	5									24
HELIX		VAL A		ALA A	193	1									14
HELIX		VAL A		GLU A	226	1									13
HELIX		HIS A		ASN A	235	1									7
HELIX	11 11			VAL A	264	1									12
HELIX	12 12			GLN A	292	1									5
HELIX		LEU A		ASN A	315	1									15
SHEET	1 A			VAL A	32	0									13
SHEET	2 A			ALA A		1	N	GLN	Δ	4	0	GLU	Δ	30	
SHEET	3 A			LEU A		1	N	GLN		58	0	PHE		7	
SHEET	4 A		A 101	LEU A		1	N			101	0	VAL		59	
SHEET	5 A		A 157	PRO A		1	N			157	0	LEU			
SHEET	6 A		A 243	VAL A		1	N			243	0	MET			
SHEET	1 B		A 165	TYR A		0				210	O			- 02	
SHEET	2 B		A 211	HIS A		1	N	LEH	Δ	212	0	ASN	Δ	165	
SHEET	1 C		A 198		202	0				2 + 2	O	11011		- 00	
SHEET	2 C		A 269		273	1	N	ARG	Α	269	0	VAL	Α	199	
CISPEP	1 GLN				18	_		0			0.01	V 1 1 1 1			
CRYST1	104.20		.200	74.900		0.0	90		120	0.00		2 1		6	
ORIGX1		000000			.0000		50			00000	. 02			Ŭ	
ORIGX2		000000	1.00		.0000					00000					
ORIGX3		000000			.0000					00000					
SCALE1		009597			.0000					00000					
SCALE2		000000	0.01		.0000					00000					
SCALE3		000000	0.00		.0133					00000					
ATOM	1 N				8.638		7.1			.412	1.00	63	. 69)	N
ATOM		:A LYS			0.030		6.7			.005		63			C
ATOM	3 C				0.303		6.9			.499	1.00				C
ATOM	4 0				9.823		6.1			.666		62			0
ATOM		B LYS			0.346		5.3			.425		64			C
ATOM		G LYS			1.727		4.8			.987	1.00				С
ATOM	7 C	D LYS			2.029		3.4			.428	1.00		.90)	С
ATOM	8 C	E LYS		1	2.180		3.3		32.	.930	1.00	71	.80)	С
ATOM	9 N	IZ LYS	A 3	1	2.644	2	2.0	36	33.	.349	1.00	74	.38	}	N
ATOM	10 N	I GLN	A 4	1	1.128	2	7.9	25	29.	.178	1.00	55	.75	·)	N
ATOM	11 C	A GLN	A 4	1	1.511	2	8.2	56	27.	.809	1.00	48	.96	5	С
ATOM	12 C	GLN	A 4	1	2.167	2	7.1	14 :	27.	.033	1.00	44	.63	}	С
ATOM	13 0	GLN	A 4	1	3.183	2	6.5	74 :	27.	.463	1.00	44	.81	-	0
MOTA	14 C	B GLN	A 4		2.477		9.4		27.	.848	1.00	50	.16)	С
MOTA	15 C	G GLN		1	2.032	3	0.6	32 :	27.	.042	1.00	59	.37	7	С
MOTA	16 C	D GLN	A 4		0.678		1.1			.464	1.00	59	.21		С
ATOM		E1 GLN			9.836		1.4			.627		60			0
ATOM		IE2 GLN			0.455		1.2			.770		63			N
ATOM	19 N				1.579		6.7			.902		39			И
ATOM		:A ARG			2.150		5.6			.061		38			С
ATOM	21 C				3.005		6.3			.972		38			С
ATOM	22 0				2.485		7.0			.074		35			0
ATOM		B ARG			1.057		4.8			.457		40			С
ATOM		G ARG			0.475		3.8			.448) 43			С
ATOM		D ARG			9.263		3.0			.887) 47			С
ATOM		IE ARG			9.537		2.2			.672		49			N
ATOM		Z ARG			0.174		1.1			.634		50			С
ATOM		H1 ARG			0.633		0.5			.747) 48			N
ATOM		ih2 ARG			0.308		0.4			.480) 47			N
ATOM	30 N				4.321		6.1			.078		35			И
MOTA	31 C	A VAL	A 6	1	5.287	2	6.7	52 .	∠3.	.164	⊥.0(32	. 66)	С

ATOM	32	С	VAL	А	6	15.959	25.813	22.163	1.00	33.57	С
ATOM	33	0	VAL		6	16.476	24.758	22.530		34.23	0
ATOM	34	СВ	VAL		6	16.383	27.474	23.966		29.88	С
ATOM	35		VAL		6	17.384	28.131	23.041		27.61	С
ATOM	36		VAL		6	15.750	28.508	24.882		31.72	C
ATOM	37	N	PHE		7	15.934	26.207	20.891		31.96	N
ATOM	38	CA	PHE		7	16.578	25.441	19.827		30.72	C
ATOM	39	C	PHE		7	17.858	26.156	19.450		28.83	C
ATOM	40	0	PHE		7	17.829	27.336	19.120		29.46	0
ATOM	41	СВ	PHE		7	15.701	25.355	18.574		27.48	C
ATOM	42	CG	PHE		7	16.390	24.723	17.378	1.00	27.78	C
ATOM	43		PHE		7	17.127	23.545	17.511		26.89	C
ATOM	44		PHE		7	16.266	25.286	16.108		25.21	C
ATOM	45		PHE		7	17.721	22.931	16.397		24.47	C
	_				7					27.28	C
ATOM	46 47	CEZ CZ	PHE		7	16.854	24.682	14.992			С
ATOM			PHE			17.582	23.502	15.137		25.91	
MOTA	48	N	ILE		8	18.978	25.449	19.548		27.27	N
ATOM	49	CA	ILE		8	20.261	26.004	19.159		26.85	C
ATOM	50	С	ILE		8	20.664	25.231	17.920		25.72	C
ATOM	51	0	ILE		8	20.927	24.030	17.996	1.00	28.54	0
ATOM	52	CB	ILE		8	21.339	25.824	20.236	1.00	28.61	C
ATOM	53	CG1	ILE		8	20.924	26.528	21.531		27.20	C
ATOM	54	CG2	ILE		8	22.656	26.412	19.740		30.46	C
ATOM	55	CD1	ILE		8	21.841	26.255	22.693		25.47	С
ATOM	56	N	ALA		9	20.563	25.888	16.766		26.91	N
ATOM	57	CA	ALA		9	20.932	25.285	15.490		26.06	С
ATOM	58	С	ALA		9	22.455	25.247	15.454		28.04	С
ATOM	59	0	ALA		9	23.101	26.226	15.825		31.13	0
ATOM	60	СВ	ALA	А	9	20.402	26.121	14.334		24.74	С
ATOM	61	N	GLY	Α	10	23.025	24.117	15.041	1.00	26.12	И
ATOM	62	CA	GLY	Α	10	24.471	23.993	14.990	1.00	24.64	С
ATOM	63	С	GLY	Α	10	25.111	24.033	16.365	1.00	27.50	С
ATOM	64	0	GLY	А	10	26.094	24.739	16.569	1.00	29.10	0
ATOM	65	N	HIS	А	11	24.575	23.253	17.301	1.00	27.97	N
ATOM	66	CA	HIS	А	11	25.087	23.218	18.674	1.00	29.42	С
MOTA	67	С	HIS	А	11	26.460	22.553	18.841	1.00	31.84	С
MOTA	68	0	HIS	Α	11	27.048	22.635	19.917	1.00	33.18	0
MOTA	69	CB	HIS		11	24.073	22.541	19.604	1.00	29.13	С
ATOM	70	CG	HIS	Α	11	23.772	21.127	19.222	1.00	29.64	С
ATOM	71	ND1	HIS	Α	11	24.236	20.048	19.942	1.00	32.30	N
ATOM	72	CD2	HIS	Α	11	23.139	20.616	18.141	1.00	28.85	С
ATOM	73	CE1	HIS	Α	11	23.911	18.932	19.314	1.00	31.82	С
ATOM	74	NE2	HIS	Α	11	23.245	19.250	18.218	1.00	33.11	И
ATOM	75	N	ARG	Α	12	26.950	21.874	17.804	1.00	33.76	N
ATOM	76	CA	ARG	Α	12	28.260	21.212	17.863	1.00	36.95	С
ATOM	77	С	ARG	Α	12	29.391	22.135	17.399	1.00	36.39	С
ATOM	78	0	ARG	Α	12	30.560	21.871	17.676	1.00	39.06	0
ATOM	79	СВ	ARG	Α	12	28.277	19.923	17.024	1.00	41.58	С
ATOM	80	CG	ARG	Α	12	27.392	18.791	17.534	1.00	52.37	С
ATOM	81	CD	ARG		12	28.027	18.059	18.706		67.26	С
ATOM	82	NE	ARG		12	27.026	17.385	19.539		81.37	N
ATOM	83	CZ	ARG		12	26.512	16.178	19.289		88.55	C
ATOM	84		ARG		12	26.918	15.481	18.226		88.92	N
ATOM	85		ARG		12	25.596	15.661	20.113		89.14	N
ATOM	86	N	GLY		13	29.049	23.201	16.677		32.93	N
ATOM	87	CA	GLY		13	30.062	24.133	16.212		27.83	C
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Serial No	.: 10/	090,8	379		
ATOM	88	С	GLY	А	13
ATOM	89	0	GLY	Α	13
ATOM	90	N	MET	Α	14
ATOM	91	CA	MET	A	14
ATOM	92	C	MET	Α	14
ATOM	93	0	MET	Α	14
ATOM	94	СВ	MET	Α	14
ATOM	95	CG	MET	Α	14
ATOM	96	SD	MET	Α	14
ATOM	97	CE	MET	Α	14
ATOM	98	N	VAL	Α	15
ATOM	99	CA	VAL	A	15
ATOM	100	C	VAL	A	15
ATOM	101	0	VAL	Α	15
ATOM	102	СВ	VAL	A	15
ATOM	103	CG1	VAL	A	15
ATOM	104	CG2	VAL	A	15
ATOM	105	N	GLY	Α	16
ATOM	106	CA	GLY	Α	16
ATOM	107	C	GLY	Α	16
ATOM	108	0	GLY	Α	16
ATOM	109	N	SER	Α	17
ATOM	110	CA	SER	Α	17
ATOM	111	C	SER	Α	17
ATOM	112	0	SER	A	17
ATOM	113	CB	SER	Α	17
ATOM	114	OG	SER	A	17
ATOM	115	N	ALA	A	18
ATOM	116	CA	ALA	Α	18
ATOM	117	C	ALA	Α	18
ATOM	118	0	ALA	Α	18
ATOM	119	СВ	ALA	Α	18
ATOM	120	N	ILE	Α	19
ATOM	121	CA	ILE	A	19
ATOM	122	C	ILE	A	19
ATOM	123	0	ILE	Α	19
ATOM	124	СВ	ILE	Α	19
ATOM	125	CG1	ILE	А	19
ATOM	126	CG2	ILE	А	19
ATOM	127	CD1	ILE	Α	19
ATOM	128	N	ARG	Α	20
ATOM	129	CA	ARG	Α	20
ATOM	130	С	ARG	А	20
ATOM	131	0	ARG	Α	20
ATOM	132	СВ	ARG	Α	20
ATOM	133	CG	ARG	Α	20
ATOM	134	CD	ARG	А	20
ATOM	135	NE	ARG	Α	20
ATOM	136	CZ	ARG	Α	20
ATOM	137	NH1	ARG	Α	20
	4 0 0			_	0.0

138 NH2 ARG A 20

141 C

139 N ARG A 21

140 CA ARG A 21

142 O ARG A 21

143 CB ARG A 21

ARG A 21

	24.881 24.718			29.13 30.32	
31.653 32.325		17.123 18.164		30.53	
31.411	26.489 27.434	18.955	1.00	29.74 31.04	
31.404 33.520	27.401 27.260	20.194 17.580	1.00	29.51	
34.300	28.032			28.97 33.10	
	28.899			37.82	
	29.755 28.295			33.36 32.83	
29.765 28.514	29.233	18.932	1.00	34.63	
28.062		19.464 20.569	1.00	31.98 32.10	
29.331 30.443	28.849 30.425	18.078	1 1111	35.96	
28.958	31.439 29.935	16.652	1.00	39.96 39.12	
27.962	27.619	18.673	1.00	28.03	
26.775	26.896 26.179			25.66 28.28	
26.206	26.332	21.331	1.00	25.01	
28.103 28.447	25.434 24.679	20.486 21.692	1.00	29.42 29.07	
28.710	25.568	22.905	1.00	27.94	
28.412 29.637	25.183 23.749	24.037 21.431	T . O O	28.82 27.99	
30.827	24.475	21.214	1.00	35.45	
29.253	26.761 27.703			27.14 25.48	
28.216	28.202	24.330	1.00	28.55	
28.116 30.352	28.396 28.874	25.539 23.243	1.00	33.37 24.37	
27.224	28.874 28.444 28.909	23.243	1.00	29.59	
25.904	28.909 27.775	,	1.00	28.30 27.99	
24.645	28.003	25.741	1.00	27.68	
	29.387 30.701			27.11 26.95	
23.558	29.593	23.133	1.00	23.47	
24.944 25.350	31.133 26.552	20.837 24.167	1.00	28.67 29.60	
24.769	25.385	24.808	1.00	33.02	
25.358 24.617	25.188 25.038	26.205 27.174	1.00	36.45 39.89	
24.975	24.140	23.951	1.00	32.65	
24.330 25.340	22.910 22.048	24.536 25.262	1.00	37.53 44.67	
25.863	21.010	24.382	1.00	51.97	
25.325 24.254	19.796 19.459	24.254 24.964	1.00	57.93 56.61	
25.819	18.930	23.370 26.321	1.00	59.30	
26.683 27.348	25.258 25.095	26.321	1.00	37.02 35.98	
26.784 26.590	26.018 25.606	28.683	1.00	36.94	
28.857	25.806	29.826 27.493	1.00	37.25 33.18	

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ATOM	144	CG	ARG	А	21	29.652	24.084	27.159	1.00	32.74	1	С
ATOM	145	CD	ARG	Α	21	31.124	24.417	27.004	1.00	33.70		С
ATOM	146	NE	ARG	Α	21	31.501	24.602	25.601	1.00	40.07	1	Ν
ATOM	147	CZ	ARG	Α	21	32.183	25.644	25.140	1.00	37.51		С
ATOM	148	NH1	ARG	Α	21	32.562	26.602	25.973	1.00	41.99	1	N
ATOM	149	NH2	ARG	Α	21	32.508	25.719	23.852	1.00	47.55	1	N
ATOM	150	N	GLN	Α	22	26.495	27.257	28.304	1.00	38.54	1	Ν
ATOM	151	CA	GLN	А	22	25.965	28.227	29.251	1.00	42.06	1	С
MOTA	152	С	GLN	Α	22	24.483	28.132	29.571	1.00	43.56		С
ATOM	153	0	GLN	Α	22	24.067	28.550	30.656	1.00	44.96	(0
MOTA	154	СВ	GLN	А	22	26.300	29.644	28.816	1.00	43.53	1	С
MOTA	155	CG	GLN	Α	22	27.432	30.225	29.604	1.00	49.02		С
MOTA	156	CD	GLN	Α	22	27.827	31.577	29.101	1.00	51.28	1	С
MOTA	157	OE1	GLN	А	22	28.853	31.726	28.429	1.00	54.83	(0
ATOM	158	NE2	GLN	А	22	27.016	32.581	29.410	1.00	53.38	1	N
ATOM	159	N	LEU	А	23	23.686	27.627	28.630	1.00	42.24		N
ATOM	160	CA	LEU	А	23	22.247	27.498	28.856	1.00	45.31		С
ATOM	161	С	LEU	А	23	21.929	26.205	29.595	1.00	48.09		С
ATOM	162	0	LEU	А	23	20.913	26.097	30.285	1.00	49.11		0
ATOM	163	СВ	LEU		23	21.459	27.571	27.543	1.00	38.67		С
ATOM	164	CG	LEU	А	23	21.417	28.917	26.810	1.00	38.41		С
ATOM	165		LEU		23	20.543	28.779	25.581	1.00	33.70		С
ATOM	166	CD2	LEU		23	20.893	30.028	27.706	1.00	34.23		С
MOTA	167	И	GLU		24	22.812	25.228	29.453	1.00	50.02		N
ATOM	168	CA	GLU		24	22.648	23.953	30.119		55.08		С
ATOM	169	С	GLU		24	22.766	24.171	31.623	1.00	58.31		С
MOTA	170	0	GLU		24	22.203	23.417	32.412	1.00	60.07		0
ATOM	171	СВ	GLU		24	23.741	23.010	29.660	1.00	56.46		С
MOTA	172	CG	GLU		24	23.284	21.598	29.457	1.00	62.85		С
ATOM	173	CD	GLU		24	24.188	20.858	28.494	1.00	68.54		С
ATOM	174	OE1	GLU		24	25.434	20.984	28.611	1.00	68.44		0
ATOM	175	OE2	GLU		24	23.646	20.168	27.601	1.00	71.01		0
ATOM	176	N	GLN		25	23.480	25.230	32.002	1.00	62.78		N
ATOM	177	CA	GLN		25	23.708	25.591	33.401	1.00	66.52		C
ATOM	178	C	GLN		25	22.584	26.446	34.017	1.00	68.64		С
ATOM	179	0	GLN		25	22.841	27.435	34.713	1.00	69.85		0
ATOM	180	CB	GLN		25	25.067	26.294	33.535	1.00	68.27		C
ATOM	181	CG	GLN		25	26.230	25.457	32.999	1.00	75.90		C
ATOM	182	CD	GLN		25	27.576	26.174	33.052	1.00	80.72		C
ATOM	183		GLN		25	28.381	25.943	33.960		83.61		0
ATOM	184		GLN		25	27.837	27.026	32.059		81.04		N
ATOM	185	N	ARG		26	21.342	26.084	33.703		68.37		N
ATOM	186	CA	ARG		26	20.148	26.753	34.225		68.33		C
ATOM	187	С	ARG		26	18.887	25.974	33.854		69.03		C
ATOM	188	0	ARG		26	18.695	25.567	32.702		68.90		0
ATOM	189	CB	ARG		26	20.062	28.232	33.812		66.09		С
ATOM	190	CG	ARG		26	20.688	28.591	32.482		61.10 54.67		С
ATOM	191 192	CD	ARG		26	20.697 19.376	30.093 30.591	32.295 31.935		49.99		С
ATOM	193	NE CZ	ARG		26			31.285		48.55		П
ATOM ATOM	193		ARG ARG		26 26	19.156 20.169	31.731 32.512	30.929		46.71		N
ATOM ATOM	195		ARG		26	17.924	32.058	30.929		45.62		N
ATOM	196	Nnz N	GLY		27	18.054	25.742	34.865		69.57		N
ATOM	197	CA	GLY		27	16.836	24.970	34.698		68.44		С
ATOM	198	CA	GLY		27	15.594	25.667	34.189		68.23		С
ATOM	199	0	GLY		27	14.550	25.007	34.049		67.27		0
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ATOM	200	N	ASP	A	28	15.677	26.976	33.947	1.00	66.57	N
ATOM	201	CA	ASP	А	28	14.526	27.723	33.428	1.00	64.96	С
ATOM	202	С	ASP	Α	28	14.480	27.641	31.902	1.00	62.04	С
ATOM	203	0	ASP	Α	28	13.654	28.287	31.246	1.00	62.38	0
ATOM	204	СВ	ASP	Α	28	14.551	29.190	33.898	1.00	65.86	С
ATOM	205	CG	ASP	Α	28	15.742	29.973	33.364	1.00	64.56	С
ATOM	206	OD1	ASP	А	28	16.836	29.389	33.199	1.00	66.57	0
ATOM	207	OD2	ASP	Α	28	15.581	31.190	33.131	1.00	64.68	0
ATOM	208	N	VAL	А	29	15.354	26.796	31.360	1.00	57.04	Ν
ATOM	209	CA	VAL	Α	29	15.480	26.588	29.929	1.00	52.45	С
ATOM	210	С	VAL	А	29	15.607	25.103	29.624	1.00	49.25	С
ATOM	211	0	VAL	А	29	16.343	24.383	30.295	1.00	51.07	0
ATOM	212	CB	VAL	Α	29	16.747	27.313	29.393	1.00	52.99	С
ATOM	213	CG1	VAL	А	29	17.004	26.954	27.935	1.00	50.80	С
ATOM	214	CG2	VAL	А	29	16.607	28.826	29.567		48.36	С
ATOM	215	N	GLU	А	30	14.891	24.654	28.604		46.94	N
ATOM	216	CA	GLU	А	30	14.951	23.262	28.187	1.00	47.71	С
ATOM	217	С	GLU		30	15.441	23.272	26.745		45.06	С
ATOM	218	0	GLU	А	30	14.782	23.830	25.869		46.43	0
ATOM	219	СВ	GLU	А	30	13.568	22.626	28.263	1.00	54.26	С
ATOM	220	CG	GLU	А	30	13.593	21.106	28.209	1.00	64.02	С
ATOM	221	CD	GLU		30	12.299	20.513	27.669	1.00	70.53	С
ATOM	222	OE1	GLU		30	11.205	21.056	27.972		74.04	0
ATOM	223	OE2	GLU	А	30	12.387	19.505	26.928	1.00	73.01	0
ATOM	224	N	LEU		31	16.582	22.636	26.499		40.76	Ν
ATOM	225	CA	LEU		31	17.186	22.612	25.166		38.48	С
ATOM	226	С	LEU		31	16.707	21.543	24.187		37.80	С
ATOM	227	0	LEU		31	16.619	20.369	24.521	1.00	39.58	0
ATOM	228	СВ	LEU		31	18.710	22.522	25.289	1.00	37.82	С
ATOM	229	CG	LEU		31	19.434	23.609	26.082	1.00	35.92	С
ATOM	230	CD1	LEU		31	20.875	23.218	26.220	1.00	40.39	С
ATOM	231	CD2	LEU		31	19.317	24.952	25.398		37.04	С
ATOM	232	Ν	VAL		32	16.410	21.969	22.964		37.61	Ν
ATOM	233	CA	VAL		32	15.983	21.065	21.901		36.80	С
ATOM	234	С	VAL		32	17.160	21.108	20.933		39.39	С
ATOM	235	0	VAL		32	17.487	22.166	20.397	1.00	41.93	0
ATOM	236	СВ	VAL		32	14.699	21.575	21.204	1.00	36.86	С
ATOM	237	CG1	VAL		32	14.282	20.624	20.086	1.00	30.23	С
ATOM	238	CG2	VAL		32	13.575	21.741	22.228		31.98	С
ATOM	239	N	LEU		33	17.837	19.977	20.768		39.48	Ν
ATOM	240	CA	LEU		33	19.011	19.904	19.903		36.25	С
ATOM	241	С	LEU		33	18.898	18.785	18.881		38.55	С
ATOM	242	0	LEU		33	18.383	17.703	19.179		39.14	0
ATOM	243	СВ	LEU		33	20.268	19.694	20.754		34.99	С
ATOM	244	CG	LEU		33	20.485	20.638	21.945		34.65	С
ATOM	245		LEU		33	21.741	20.219	22.683		32.95	С
ATOM	246		LEU		33	20.586	22.098	21.494		32.49	С
ATOM	247	N	ARG		34	19.398	19.046	17.679		38.68	N
ATOM	248	CA	ARG		34	19.356	18.074	16.601		40.14	С
ATOM	249	С	ARG		34	20.712	18.083	15.931		43.00	C
ATOM	250	0	ARG		34	21.301	19.144	15.775		45.35	0
ATOM	251	CB	ARG		34	18.288	18.484	15.591		41.19	C
ATOM	252	CG	ARG		34	17.129	17.524	15.456		44.68	C
ATOM	253	CD	ARG		34	16.708	17.011	16.798		46.21	С
ATOM	254	NE	ARG		34	15.287	16.711	16.855		46.21	N
ATOM	255	CZ	ARG	А	34	14.566	16.795	17.967	1.00	49.07	С

ATOM	256	NH1	ARG	А	34	15.140	17.161	19.109	1.00	48.00	1	V
ATOM	257	NH2	ARG	А	34	13.262	16.565	17.930	1.00	49.48	1	1
ATOM	258	N	THR	Α	35	21.243	16.908	15.604	1.00	44.95	1	N
ATOM	259	CA	THR	Α	35	22.537	16.836	14.923	1.00	47.44	(\mathbb{C}
ATOM	260	С	THR	А	35	22.288	16.977	13.423	1.00	49.58	(\mathbb{C}
ATOM	261	0	THR	Α	35	21.150	16.829	12.968	1.00	48.67	(C
ATOM	262	СВ	THR	Α	35	23.292	15.497	15.189	1.00	46.23	(2
ATOM	263	OG1	THR	А	35	22.553	14.390	14.642	1.00	46.62	(C
ATOM	264	CG2	THR	А	35	23.528	15.299	16.683	1.00	41.97		C
ATOM	265	N	ARG	А	36	23.344	17.270	12.662	1.00	51.19	1	V.
ATOM	266	CA	ARG	А	36	23.230	17.425	11.212	1.00	51.67	(\mathcal{C}
ATOM	267	С	ARG	А	36	22.659	16.159	10.586	1.00	50.62		C
ATOM	268	0	ARG	А	36	22.014	16.210	9.536	1.00	52.39	(C
ATOM	269	СВ	ARG		36	24.589	17.756	10.603		52.88		C
ATOM	270	N	ASP	А	37	22.893	15.027	11.245	1.00	51.21		V
ATOM	271	CA		А	37	22.392	13.742	10.774	1.00	51.44	(2
ATOM	272	С		А	37	20.904	13.612	11.112	1.00	50.79		2
ATOM	273	0	ASP	А	37	20.139	13.052	10.326		53.29		С
ATOM	274	СВ	ASP	А	37	23.194	12.593	11.397		54.47		\mathbb{C}
ATOM	275	N	GLU		38	20.495	14.143	12.266		47.78	1	
ATOM	276	CA	GLU		38	19.092	14.091	12.688	1.00	46.26		2
ATOM	277	С	GLU		38	18.207	15.099	11.945		44.99		2
ATOM	278	0	GLU		38	17.034	14.839	11.695		43.56	(
ATOM	279	СВ	GLU		38	18.958	14.366	14.184		48.88		2
ATOM	280	CG	GLU		38	19.650	13.390	15.099	1.00	56.44		2
ATOM	281	CD	GLU		38	19.438	13.743	16.569	1.00	62.40		2
ATOM	282	OE1	GLU		38	18.400	13.335	17.134	1.00	66.81		2
ATOM	283	OE2	GLU		38	20.295	14.438	17.162	1.00	62.97		2
ATOM	284	N	LEU		39	18.760	16.267	11.638		42.52	1	
ATOM	285	CA	LEU		39	18.012	17.310	10.947		38.39		2
ATOM	286	C	LEU		39	18.873	18.016	9.917		37.75		2
ATOM	287	0	LEU		39	19.836	18.711	10.260	1.00	37.24		2
ATOM	288	СВ	LEU		39	17.470	18.338	11.949	1.00	36.50		2
ATOM	289	CG	LEU		39	16.698	19.540	11.385		35.31		2
ATOM	290	CD1	LEU		39	15.411	19.082	10.735		32.83		2
ATOM	291	CD2	LEU		39	16.401	20.537	12.491		32.93		2
ATOM	292	N	ASN		40	18.523	17.823	8.651		38.34	1	
ATOM	293	CA	ASN		40	19.239	18.453	7.557		36.52		2
ATOM	294	C	ASN		40	18.724	19.885	7.395		33.47		2
ATOM	295	0	ASN		40	17.626	20.105	6.882		29.28	(
ATOM	296	СВ	ASN		40	19.042	17.665	6.261		37.46		2
ATOM	297	CG	ASN		40	19.859	18.229	5.106		41.58		2
ATOM	298		ASN		40	20.772	19.040	5.302		41.28		2
ATOM	299		ASN		40	19.528	17.808	3.895		42.51		V.
ATOM	300	N	LEU		41	19.541	20.848	7.821		30.23		V
ATOM	301	CA	LEU		41	19.186	22.257	7.746		29.10		2
ATOM	302	C	LEU		41	19.000	22.805	6.338		29.52		2
ATOM	303	0	LEU		41	18.344	23.824	6.163		27.99	(
ATOM	304	СВ	LEU		41	20.191	23.107	8.519		26.30		2
ATOM	305	CG	LEU		41	20.205	22.855	10.027		27.35		2
ATOM	306	CD1			41	21.100	23.862	10.720		26.87		2
ATOM	307	CD1			41	18.797	22.961	10.720		27.66		2
ATOM	308	N	LEU		42	19.563	22.137	5.333		32.20	1	
ATOM	309	CA	LEU		42	19.410	22.590	3.946		34.55		.и С
ATOM	310	CA	LEU		42	18.058	22.175	3.361		35.50		2
ATOM	311	0	LEU		42	17.641	22.674	2.315		37.16		2
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ATOM	312	СВ	LEU	A	42	20.532	22.041	3.067	1.00	32.08	С
ATOM	313	CG	LEU	А	42	21.949	22.451	3.459	1.00	39.02	С
ATOM	314	CD1	LEU	А	42	22.926	21.931	2.418		41.28	С
ATOM	315	CD2	LEU		42	22.047	23.965	3.554	1.00	39.26	С
ATOM	316	N	ASP		43	17.387	21.254	4.045		36.52	N
ATOM	317	CA		А	43	16.089	20.740	3.620		37.75	C
ATOM	318	C	ASP		43	14.942	21.569	4.218		36.46	C
ATOM	319	0	ASP		43	14.664	21.480	5.417	1.00	34.50	0
ATOM	320	СВ	ASP		43	15.975	19.273	4.061		39.78	C
ATOM	321	CG	ASP		43	14.819	18.526	3.398	1.00	41.33	C
ATOM	322				43	13.970	19.132	2.706	1.00	43.53	0
ATOM	323	OD1	ASP		43	14.770	17.295	3.580		45.01	0
ATOM	324	N	SER		44	14.266	22.342	3.366		36.33	И
ATOM	325	CA	SER		44	13.138	23.188	3.782		38.00	C
ATOM	326	C	SER		44	12.052	22.392	4.499		35.58	С
ATOM	327	0	SER		44	11.659	22.749	5.606		36.68	0
ATOM	328	CB	SER		44	12.501	23.884	2.572		38.92	С
ATOM	329	OG	SER		44	13.479	24.470	1.734		48.46	0
ATOM	330	N	ARG		45	11.567	21.329	3.850		33.51	N
ATOM	331	CA	ARG		45	10.511	20.473	4.399		34.32	С
ATOM	332	С	ARG		45	10.909	19.882	5.746		33.06	C
ATOM	333	0	ARG		45	10.122	19.910	6.690		35.03	0
MOTA	334	СВ	ARG		45	10.138	19.355	3.399		33.08	С
MOTA	335	Ν	ALA		46	12.142	19.394	5.848		31.22	N
ATOM	336	CA	ALA		46	12.626	18.825	7.101		30.44	С
ATOM	337	С	ALA	Α	46	12.599	19.861	8.229		31.44	С
ATOM	338	0	ALA	Α	46	12.125	19.571	9.334	1.00	32.23	0
ATOM	339	CB	ALA	А	46	14.025	18.281	6.924	1.00	31.62	С
ATOM	340	N	VAL	А	47	13.081	21.072	7.936	1.00	29.54	N
MOTA	341	CA	VAL	Α	47	13.115	22.154	8.917	1.00	27.16	С
MOTA	342	С	VAL	Α	47	11.701	22.577	9.320	1.00	28.86	С
ATOM	343	0	VAL	Α	47	11.433	22.785	10.502	1.00	28.12	0
ATOM	344	CB	VAL	Α	47	13.917	23.379	8.396	1.00	24.67	С
ATOM	345	CG1	VAL	Α	47	14.000	24.469	9.458	1.00	23.42	С
ATOM	346	CG2	VAL	Α	47	15.307	22.951	7.999	1.00	19.37	С
ATOM	347	N	HIS	Α	48	10.792	22.694	8.351	1.00	31.64	N
ATOM	348	CA	HIS	Α	48	9.414	23.082	8.663	1.00	35.83	С
ATOM	349	С	HIS	А	48	8.733	21.998	9.495	1.00	35.96	С
ATOM	350	0	HIS	А	48	8.064	22.297	10.482	1.00	35.43	0
ATOM	351	СВ	HIS		48	8.618	23.408	7.391	1.00	38.28	С
ATOM	352	CG	HIS		48	8.926	24.764	6.818		50.27	С
ATOM	353		HIS		48	10.096	25.046	6.140		53.21	N
ATOM	354		HIS		48	8.224	25.924	6.845		51.29	С
ATOM	355		HIS		48	10.103	26.317	5.777		51.07	С
ATOM	356		HIS		48	8.978	26.872	6.193		50.00	N
ATOM	357	N	ASP		49	8.975	20.737	9.140		38.30	N
ATOM	358	CA	ASP		49	8.407	19.614	9.874		38.86	C
ATOM	359	C	ASP		49	8.851	19.639	11.323		38.89	C
ATOM	360	0	ASP		49	8.056	19.373	12.224		40.59	0
ATOM	361	СВ	ASP		49	8.828	18.292	9.247		42.49	C
ATOM	362	CG	ASP		49	7.981	17.918	8.047		50.21	C
ATOM	363		ASP		49	7.082	18.710	7.669		50.35	0
ATOM	364		ASP		49	8.217	16.822	7.481		53.08	0
ATOM	365	N	PHE		50	10.127	19.954	11.531		35.97	N
ATOM	366	CA	PHE		50	10.709	20.030	12.865		34.02	C
ATOM	367	C	PHE		50	10.709	21.118	13.714		35.18	С
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ATOM	368	0	PHE A	50	9.714	20.893	14.877	1.00 38.29
ATOM	369	СВ	PHE A	50	12.219	20.283	12.761	1.00 30.83
ATOM	370	CG	PHE A	50	12.851	20.722	14.047	1.00 30.52
ATOM	371		PHE A	50	13.162	19.799	15.038	1.00 31.61
ATOM	372		PHE A	50	13.117	22.068	14.281	1.00 32.48
	373	CE1		50		20.212	16.253	
ATOM			PHE A		13.732			
ATOM	374	CE2		50	13.684	22.490	15.490	1.00 32.18
ATOM	375	CZ	PHE A	50	13.992	21.560	16.476	1.00 31.47
ATOM	376	Ν	PHE A	51	9.888	22.305	13.142	1.00 37.07
ATOM	377	CA	PHE A	51	9.274	23.417	13.858	1.00 36.16
ATOM	378	С	PHE A	51	7.784	23.170	14.128	1.00 38.74
ATOM	379	0	PHE A	51	7.220	23.693	15.101	1.00 38.01
ATOM	380	CB	PHE A	51	9.492	24.725	13.090	1.00 32.36
ATOM	381	CG	PHE A	51	10.795	25.409	13.412	1.00 29.69
ATOM	382	CD1	PHE A	51	10.927	26.177	14.561	1.00 29.87
ATOM	383		PHE A	51	11.893	25.288	12.565	1.00 31.86
ATOM	384		PHE A	51	12.138	26.820	14.866	1.00 32.30
ATOM	385		PHE A	51	13.112	25.932	12.864	1.00 32.42
ATOM	386	CZ	PHE A	51	13.230	26.697	14.014	1.00 25.70
ATOM	387	N	ALA A	52	7.158	22.371	13.266	1.00 39.97
ATOM	388	CA	ALA A	52	5.745	22.028	13.411	1.00 41.53
ATOM	389	С	ALA A	52	5.563	21.008	14.539	1.00 44.62
ATOM	390	0	ALA A	52	4.649	21.141	15.351	1.00 45.89
ATOM	391	CB	ALA A	52	5.202	21.466	12.103	1.00 38.20
ATOM	392	N	SER A	53	6.459	20.019	14.601	1.00 46.42
ATOM	393	CA	SER A	53	6.418	18.960	15.616	1.00 45.72
ATOM	394	С	SER A	53	6.849	19.405	17.004	1.00 47.16
ATOM	395	0	SER A	53	6.238	19.004	17.987	1.00 49.71
ATOM	396	СВ	SER A	53	7.288	17.782	15.192	1.00 45.45
ATOM	397	OG	SER A	53	6.980	17.394	13.868	1.00 53.05
ATOM	398	Ν	GLU A	54	7.932	20.178	17.091	1.00 46.86
ATOM	399	CA	GLU A	54	8.437	20.662	18.376	1.00 46.84
ATOM	400	С	GLU A	54	7.795	21.977	18.768	1.00 47.50
ATOM	401	0	GLU A	54	7.248	22.684	17.925	1.00 51.96
ATOM	402	CB	GLU A	54	9.949	20.849	18.324	1.00 48.68
	403	CG	GLU A	54	10.724	19.587	18.019	1.00 53.13
ATOM								
ATOM	404	CD OD1	GLU A	54	10.444	18.468	19.007	1.00 60.46
ATOM	405	OE1	GLU A	54	10.399	18.721	20.234	1.00 57.16
ATOM	406		GLU A	54	10.262	17.322	18.546	1.00 66.12
ATOM	407	Ν	ARG A		7.863	22.313	20.048	1.00 46.85
ATOM	408	CA	ARG A		7.280	23.567	20.505	1.00 49.02
ATOM	409	С	ARG A		8.405	24.508	20.939	1.00 48.90
ATOM	410	0	ARG A		8.730	24.604	22.123	1.00 53.40
ATOM	411	СВ	ARG A	55	6.292	23.314	21.649	1.00 50.58
ATOM	412	N	ILE A	56	8.984	25.209	19.966	1.00 44.99
ATOM	413	CA	ILE A	56	10.100	26.126	20.202	1.00 38.13
ATOM	414	C	ILE A		9.670	27.529	20.621	1.00 34.31
ATOM	415	0	ILE A		8.745	28.101	20.055	1.00 36.35
ATOM	416	СВ	ILE A		10.991	26.232	18.931	1.00 35.61
ATOM	417		ILE A		11.369	24.834	18.426	1.00 35.46
ATOM	418		ILE A		12.240	27.036	19.221	1.00 33.40
	419						19.221	
ATOM			ILE A		12.076	23.987		1.00 33.67
ATOM	420	N	ASP A		10.357		21.611	1.00 32.47
ATOM	421	CA	ASP A		10.068	29.431	22.092	1.00 32.79
ATOM	422	С	ASP A		11.131		21.605	1.00 33.07
ATOM	423	0	ASP A	57	10.832	31.569	21.330	1.00 31.43

ATOM	424	СВ	ASP	А	57	10.009	29.462	23.624	1.00	36.91	С
ATOM	425	CG	ASP		57	8.894	28.592	24.183		39.26	С
ATOM	426		ASP		57	7.712	28.887	23.906		47.27	0
ATOM	427	OD2	ASP		57	9.193	27.606	24.884		40.90	0
ATOM	428	N	GLN		58	12.375	29.940	21.512	1.00	31.78	N
ATOM	429	CA	GLN		58	13.500	30.765	21.071	1.00	28.04	C
ATOM	430	С	GLN		58	14.429	29.995	20.148	1.00		С
ATOM	431	0	GLN		58	14.527	28.770	20.238	1.00	25.86	0
ATOM	432	СВ	GLN		58	14.312	31.237	22.269	1.00	29.78	С
ATOM	433	CG	GLN		58	13.572	32.123	23.240	1.00	31.73	С
ATOM	434	CD	GLN		58	14.419	32.464	24.440	1.00	35.81	С
ATOM	435	OE1	GLN	Α	58	15.628	32.228	24.449	1.00	40.84	0
ATOM	436	NE2	GLN	Α	58	13.795	33.023	25.462	1.00	37.26	N
ATOM	437	N	VAL	Α	59	15.091	30.716	19.245	1.00	24.01	N
ATOM	438	CA	VAL	А	59	16.036	30.099	18.320	1.00	21.93	С
ATOM	439	С	VAL	А	59	17.366	30.859	18.272		23.38	С
ATOM	440	0	VAL		59	17.396	32.089	18.135	1.00	21.63	0
ATOM	441	СВ	VAL		59	15.490	30.016	16.875	1.00	17.31	C
ATOM	442	CG1	VAL		59	16.567	29.490	15.939	1.00	16.78	C
ATOM	443	CG2			59	14.284	29.102	16.804		18.50	C
							30.125			23.89	
ATOM	444	N	TYR		60	18.457		18.483			N
ATOM	445	CA	TYR		60	19.805	30.684	18.383		20.82	С
ATOM	446	С	TYR		60	20.325	30.105	17.069	1.00	19.95	C
ATOM	447	0	TYR		60	20.594	28.908	16.969	1.00	17.96	0
ATOM	448	CB	TYR		60	20.686	30.249	19.555	1.00	21.24	С
ATOM	449	CG	TYR	Α	60	20.468	31.047	20.821	1.00	21.26	С
ATOM	450	CD1	TYR	Α	60	19.495	30.666	21.750	1.00	26.71	С
ATOM	451	CD2	TYR	Α	60	21.243	32.172	21.106	1.00	22.27	С
ATOM	452	CE1	TYR	Α	60	19.290	31.396	22.946	1.00	25.66	С
ATOM	453	CE2	TYR	Α	60	21.051	32.907	22.295	1.00	24.50	С
ATOM	454	CZ	TYR	А	60	20.070	32.507	23.207	1.00	25.26	С
ATOM	455	ОН	TYR		60	19.858	33.223	24.363		25.38	0
ATOM	456	N	LEU		61	20.353	30.937	16.034		20.46	N
ATOM	457	CA	LEU		61	20.801	30.500	14.720		22.94	C
ATOM	458	C	LEU		61	22.323	30.605	14.639	1.00	21.21	C
ATOM	459	0	LEU		61	22.879	31.611	14.191	1.00	19.44	0
ATOM	460	СВ	LEU		61	20.068	31.311	13.629	1.00		C
ATOM	461	CG	LEU		61	20.352	31.155	12.126		27.44	C
						20.332	29.760	11.759			C
ATOM	462		LEU		61					29.14	
ATOM	463		LEU		61	19.129	31.557	11.324		23.03	C
ATOM	464	N	ALA		62	22.981	29.558	15.131		20.78	N
ATOM	465	CA	ALA		62	24.439	29.491	15.158		22.32	C
ATOM	466	С	ALA		62	25.008	28.541	14.112		22.99	С
ATOM	467	0	ALA		62	26.208	28.335	14.054		28.02	0
ATOM	468	CB	ALA	Α	62	24.924	29.095	16.549		16.86	С
ATOM	469	N	ALA	Α	63	24.149	27.942	13.299	1.00	24.22	N
ATOM	470	CA	ALA	Α	63	24.618	27.030	12.268	1.00	26.70	С
ATOM	471	С	ALA	Α	63	25.088	27.849	11.077	1.00	29.99	С
ATOM	472	0	ALA	Α	63	24.420	28.809	10.672	1.00	32.35	0
ATOM	473	СВ	ALA	Α	63	23.509	26.082	11.845	1.00	20.68	С
ATOM	474	N	ALA		64	26.229	27.453	10.513		28.73	N
ATOM	475	CA	ALA		64	26.815	28.136	9.365		28.35	C
ATOM	476	C	ALA		64	27.903	27.287	8.724		28.85	C
ATOM	477	0	ALA		64	28.439	26.374	9.345		31.39	0
ATOM	478	CB	ALA			27.412	29.491	9.798		21.63	C
ATOM	479	N			64 65	28.197	27.578	7.464		28.86	N
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ATOM	480	CA	LYS	Α	65	29.265	26.911	6.736	1.00	28.57	С
ATOM	481	С	LYS	А	65	30.399	27.936	6.874	1.00	29.46	С
ATOM	482	0	LYS	Α	65	30.346	29.013	6.283	1.00	29.87	0
ATOM	483	CB	LYS	Α	65	28.852	26.722	5.276	1.00	30.04	С
ATOM	484	CG	LYS	Α	65	29.972	26.397	4.306	1.00	32.70	С
ATOM	485	CD	LYS	А	65	30.449	24.989	4.456		35.74	С
ATOM	486	CE	LYS		65	31.365	24.620	3.313		37.17	С
ATOM	487	NΖ	LYS	А	65	31.739	23.186	3.409		42.92	N
ATOM	488	N	VAL		66	31.349	27.642	7.765		31.78	N
ATOM	489	CA	VAL	Α	66	32.496	28.518	8.044		28.32	С
ATOM	490	С	VAL	А	66	33.836	27.881	7.639		29.15	С
ATOM	491	0	VAL		66	33.949	26.662	7.495		28.25	0
ATOM	492	СВ	VAL		66	32.568	28.857	9.543		27.61	С
ATOM	493	CG1	VAL		66	31.324	29.604	9.979		25.46	С
ATOM	494	CG2	VAL		66	32.700	27.579	10.343		29.97	С
ATOM	495	N	GLY		67	34.858	28.710	7.471		27.21	N
ATOM	496	CA	GLY		67	36.155	28.192	7.087		27.65	С
ATOM	497	С	GLY		67	37.206	29.276	6.971		29.05	С
ATOM	498	0	GLY		67	36.928	30.461	7.202		29.48	0
ATOM	499	N	GLY		68	38.422	28.866	6.620		27.78	N
ATOM	500	CA	GLY		68	39.504	29.813	6.474		24.32	С
ATOM	501	С	GLY		68	39.628	30.369	5.071		24.11	С
ATOM	502	0	GLY		68	38.774	30.154	4.207		24.87	0
ATOM	503	N	ILE		69	40.726	31.085	4.868		25.85	N
ATOM	504	CA	ILE		69	41.087	31.733	3.616		26.01	С
ATOM	505	С	ILE		69	41.059	30.786	2.420		24.51	С
ATOM	506	0	ILE		69	40.480	31.108	1.385		23.62	0
ATOM	507	СВ	ILE		69	42.468	32.406	3.787		30.92	С
ATOM	508	CG1	ILE		69	42.295	33.666	4.630		34.71	С
ATOM	509	CG2	ILE		69	43.102	32.744	2.461		33.29	С
ATOM	510	CD1	ILE		69	43.594	34.282	5.076		44.69	С
ATOM	511	N	VAL		70	41.655	29.608	2.578		24.85	N
ATOM	512	CA	VAL		70	41.682	28.619	1.506		24.94	С
ATOM	513	С	VAL		70	40.268	28.116	1.188		25.06	С
ATOM	514	0	VAL		70	39.845	28.152	0.031		24.93	0
ATOM	515	CB	VAL		70	42.652	27.417	1.820		23.27	С
MOTA	516	CG1	VAL		70	42.550	26.337	0.738		19.99	С
ATOM	517		VAL		70	44.098	27.912	1.888		19.31	C
MOTA	518	N	ALA		71	39.518	27.724	2.215		21.50	И
MOTA	519	CA	ALA		71	38.165	27.215	2.006		22.13	С
MOTA	520	С	ALA		71	37.230	28.219	1.326		21.39	С
MOTA	521	0	ALA		71	36.528	27.864	0.380		23.27	0
MOTA	522	CB	ALA		71	37.567	26.726	3.326		20.98	C
MOTA	523	N	ASN		72	37.239	29.469	1.783		21.80	И
MOTA	524	CA	ASN		72	36.378	30.498	1.197		23.46	С
MOTA	525	С	ASN		72	36.667	30.811	-0.265		24.70	С
MOTA	526	0	ASN		72	35.762	31.210	-0.997		26.93	0
ATOM	527	CB	ASN		72	36.429	31.791	2.008		25.35	C C
MOTA	528	CG	ASN		72	35.501	31.763	3.205		27.71	
MOTA	529		ASN		72	35.916	31.422	4.317		27.32	0
ATOM	530 531		ASN ASN		72 73	34.235 37.928	32.109 30.673	2.983 -0.676		22.83 21.45	N
ATOM ATOM	532	N CA	ASN		73 73	38.313	30.673	-0.676		21.45	N C
ATOM	533	CA	ASN		73	38.203	29.673	-2.063 -2.917		21.72	C
ATOM	534	0	ASN		73	38.120	29.760	-2.917 -4.136		24.02	0
ATOM	535	CB	ASN		73	39.751	31.447	-4.130 -2.150		21.46	C
111011	555	CD	7 7 O I N	7.7	, 5	JJ.1J±	J + 4 7 7 1	2.100	±•00	21.40	C

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MOTA MOTA 550 CB TYR A 75 MOTA 551 CG TYR A 75 MOTA 552 CD1 TYR A 75 MOTA ATOM 553 CD2 TYR A 75 CE1 TYR A 75

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MOTA 567 С ALA A 77 568 ALA A 77 MOTA 0 MOTA 569 CB ALA A 77 ATOM 570 N ASP A 78 571 CA ASP A 78 MOTA 78 MOTA 572 С ASP A

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ASP A

PHE A 79

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ATOM 574 CB ASP A 78 575 CG ASP A 78 MOTA 576 OD1 ASP A 78 MOTA 577 OD2 ASP A 78 ATOM 578 PHE A 79 N MOTA CA PHE A 79 ATOM 579

PHE A 79 ATOM 581 0 CB PHE A 79 582 MOTA ATOM 583 CG PHE A 79 MOTA 584 CD1 PHE A 79 585 CD2 PHE A 79 MOTA

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587 CE2 PHE A 79 MOTA CZ PHE A 79 588 MOTA ILE A 80 MOTA 589 N MOTA MOTA

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39.263 33.759 -2.562 1.00 25.88 40.660 33.278 -0.866 1.00 23.69 38.240 28.509 -2.278 1.00 21.03 27.246 38.162 -2.989 1.00 20.74 36.729 26.762 -3.210 1.00 22.90

26.230 36.409 -4.274 1.00 19.55 38.999 26.171 -2.276 1.00 23.57 40.346 26.646 -2.162 1.00 21.16 24.854 38.998 -3.069 1.00 21.26 35.855 26.980 -2.229 1.00 20.96

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-2.367 1.00 21.11 34.462 26.556 -2.217 1.00 20.71 33.503 27.735 32.592 27.678 -1.408 1.00 21.27 34.120 25.517 -1.301 1.00 21.71

35.156 24.437 -1.125 1.00 26.72 23.324 -1.968 1.00 27.65 24.531 -0.118 1.00 28.34 36.145 22.325 -1.815 1.00 32.86 0.044 1.00 30.84 37.089 23.544

37.096 22.444 -0.807 1.00 35.47 21.471 -0.660 1.00 39.98 28.802 -3.017 1.00 18.90 -2.879 1.00 18.51

29.946 29.639 -3.018 1.00 20.26 -2.229 1.00 22.12 30.142 -3.939 1.00 18.14 30.928 30.034 -4.961 1.00 19.03

34.645 29.032 -4.097 1.00 16.40 28.805 -3.988 1.00 20.99 28.437 -4.189 1.00 19.31 27.748 -2.965 1.00 21.24 -2.578 1.00 21.45 28.049

> -5.392 1.00 17.40 27.556 26.826 -2.351 1.00 23.42 26.111 -1.173 1.00 22.41 27.063 -0.008 1.00 22.34 26.920 0.742 1.00 23.86 25.015

-0.733 1.00 24.46 23.941 -1.799 1.00 26.39 23.918 -2.855 1.00 27.59 23.105 -1.572 1.00 32.24 28.044 0.135 1.00 22.66 29.010

1.223 1.00 24.09 29.960 1.112 1.00 23.02 30.241 2.116 1.00 24.00 29.797 1.382 1.00 24.78 29.073 2.173 1.00 27.62

> 1.572 1.00 25.69 3.525 1.00 28.71 2.306 1.00 28.22 4.267 1.00 28.29 3.656 1.00 25.69

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ATOM	592	0	ILE	А	80	24.859	30.941	0.485	1.00 1	18.53	0
ATOM	593	СВ	ILE	А	80	27.229	32.319	-1.507	1.00 1	L7.70	С
ATOM	594	CG1	ILE	A	80	26.044	33.287	-1.533	1.00 1	L5.75	С
ATOM	595	CG2	ILE	Α	80	27.313	31.535	-2.821	1.00 1	L0.37	С
ATOM	596	CD1	ILE	Α	80	26.218	34.461	-2.473	1.00 1	L7.66	С
ATOM	597	N	TYR	А	81	25.710	29.519	-1.027	1.00 1	L9.40	N
ATOM	598	CA	TYR	А	81	24.495	28.721	-1.111	1.00 1	L9.48	С
ATOM	599	С	TYR	Α	81	24.047	28.094	0.215	1.00 2	20.05	С
ATOM	600	0	TYR	Α	81	22.895	28.239	0.626	1.00 2	21.48	0
ATOM	601	СВ	TYR	Α	81	24.646	27.631	-2.169		L9.25	С
ATOM	602	CG	TYR	Α	81	23.469	26.677	-2.190	1.00 2	26.38	С
ATOM	603	CD1	TYR	А	81	22.286	27.015	-2.862		25.34	С
MOTA	604	CD2	TYR	А	81	23.511	25.458	-1.492	1.00 2	21.53	С
MOTA	605	CE1	TYR	А	81	21.176	26.168	-2.833	1.00 2		С
ATOM	606	CE2	TYR		81	22.408	24.610	-1.461	1.00 2	22.64	С
ATOM	607	CZ	TYR	А	81	21.247	24.974	-2.131	1.00 2	24.22	С
ATOM	608	ОН	TYR		81	20.142	24.158	-2.092	1.00 2	27.95	0
ATOM	609	N	GLN	Α	82	24.946	27.391	0.885	1.00 1	18.83	N
ATOM	610	CA	GLN	А	82	24.579	26.743	2.128	1.00 1	L9.55	С
ATOM	611	С	GLN	А	82	24.179	27.695	3.227		20.61	С
ATOM	612	0	GLN	Α	82	23.269	27.404	3.988	1.00 2	23.95	0
ATOM	613	CB	GLN	Α	82	25.690	25.814	2.602	1.00 2	21.91	С
ATOM	614	CG	GLN	А	82	25.762	24.540	1.808	1.00 2	23.95	С
MOTA	615	CD	GLN	А	82	26.957	23.700	2.173	1.00 2	25.68	С
ATOM	616	OE1	GLN	А	82	27.532	23.030	1.322		32.27	0
ATOM	617	NE2	GLN	Α	82	27.352	23.740	3.437	1.00 2	26.29	N
ATOM	618	N	ASN	Α	83	24.884	28.811	3.346	1.00 2	20.43	N
ATOM	619	CA	ASN	Α	83	24.547	29.779	4.371	1.00 2	20.70	С
ATOM	620	С	ASN	Α	83	23.214	30.446	4.050	1.00 2	21.75	С
ATOM	621	0	ASN	Α	83	22.404	30.673	4.952	1.00 2	23.26	0
ATOM	622	СВ	ASN	Α	83	25.669	30.794	4.570	1.00 2	20.97	С
ATOM	623	CG	ASN	Α	83	26.840	30.213	5.371	1.00 2	27.66	С
ATOM	624	OD1	ASN	Α	83	26.693	29.881	6.545	1.00 2	26.41	0
ATOM	625	ND2	ASN	Α	83	27.993	30.056	4.724	1.00 2	28.22	N
ATOM	626	N	\mathtt{MET}	А	84	22.952	30.695	2.764	1.00 2	21.60	N
ATOM	627	CA	\mathtt{MET}	Α	84	21.680	31.302	2.381	1.00 2	21.97	С
ATOM	628	С	\mathtt{MET}	Α	84	20.519	30.363	2.686	1.00 2	21.10	С
ATOM	629	0	\mathtt{MET}	Α	84	19.509	30.798	3.226	1.00 2	20.39	0
ATOM	630	СВ	MET	Α	84	21.668	31.695	0.903	1.00 2	21.32	С
ATOM	631	CG	\mathtt{MET}	Α	84	22.221	33.090	0.587	1.00 2	20.30	С
ATOM	632	SD	\mathtt{MET}	Α	84	22.294	33.350	-1.233	1.00 2	24.15	S
ATOM	633	CE	\mathtt{MET}	Α	84	20.557	33.462	-1.657	1.00 2	20.11	С
ATOM	634	N	MET	Α	85	20.672	29.084	2.352	1.00 2	21.09	N
ATOM	635	CA	\mathtt{MET}	Α	85	19.619	28.092	2.611	1.00 2	23.41	С
ATOM	636	С	\mathtt{MET}	Α	85	19.361	27.888	4.095	1.00 2	22.84	С
ATOM	637	0	MET	Α	85	18.209	27.891	4.504	1.00 2	23.52	0
ATOM	638	СВ	MET	Α	85	19.912	26.739	1.965	1.00 2	23.63	С
ATOM	639	CG	MET	Α	85	19.721	26.720	0.468	1.00 3	32.64	С
ATOM	640	SD	MET	Α	85	18.081	27.235	-0.095	1.00 3	39.52	S
ATOM	641	CE	MET	Α	85	17.091	25.881	0.515	1.00 3	30.12	С
ATOM	642	N	ILE	Α	86	20.416	27.719	4.896	1.00 2	21.87	N
ATOM	643	CA	ILE	Α	86	20.274	27.526	6.353	1.00 2	21.86	С
ATOM	644	С	ILE		86	19.532	28.719	6.991	1.00 2		С
ATOM	645	0	ILE		86	18.597	28.529	7.774	1.00 2		0
ATOM	646	СВ	ILE		86	21.660	27.343	7.052	1.00 2		С
ATOM	647	CG1	ILE		86	22.331	26.054	6.582	1.00 2		С

ATOM	648	CG2	ILE	А	86	21.502	27.271	8.569	1.00 18.63	С
ATOM	649	CD1	ILE	А	86	23.777	25.922	7.063	1.00 22.13	С
ATOM	650	N	GLU	Α	87	19.943	29.938	6.636	1.00 21.80	N
MOTA	651	CA	GLU	А	87	19.302	31.154	7.151	1.00 23.48	С
ATOM	652	С	GLU	А	87	17.817	31.231	6.794	1.00 23.01	С
ATOM	653	0	GLU	А	87	16.977	31.385	7.675	1.00 24.77	0
ATOM	654	СВ	GLU	А	87	19.992	32.391	6.589	1.00 21.15	С
ATOM	655	CG	GLU		87	21.259	32.750	7.297	1.00 23.77	С
ATOM	656	CD	GLU		87	22.202	33.542	6.422	1.00 23.44	С
ATOM	657	OE1	GLU		87	21.745	34.167	5.438	1.00 20.50	0
ATOM	658	OE2	GLU		87	23.417	33.504	6.706	1.00 28.19	0
ATOM	659	Ν	SER		88	17.521	31.107	5.496	1.00 25.79	N
ATOM	660	CA	SER		88	16.164	31.160	4.938	1.00 24.76	C
ATOM	661	С	SER		88	15.226	30.110	5.499	1.00 25.71	С
ATOM	662	0	SER		88	14.080	30.413	5.829	1.00 25.35	0
ATOM	663	CB	SER		88	16.212	30.988	3.420	1.00 25.59	C
ATOM	664	OG	SER		88	16.910	32.058	2.829	1.00 29.95	0
ATOM	665	N	ASN		89	15.705	28.870	5.571	1.00 24.49	N
ATOM	666	CA	ASN		89	14.916	27.753	6.088 7.534	1.00 25.30	С
MOTA	667	С	ASN		89	14.487	27.962	7.334	1.00 25.06 1.00 25.30	C
ATOM ATOM	668 669	O CB	ASN ASN		89 89	13.303 15.693	27.928 26.438	7.040 5.961	1.00 23.30	0
ATOM	670	СБ	ASN		89	15.752	25.930	4.534	1.00 22.00	C C
ATOM	671	OD1			89	16.524	25.025	4.219	1.00 24.21	0
ATOM	672	ND2			89	14.924	26.500	3.664	1.00 27.34	N
ATOM	673	N	ILE		90	15.460	28.203	8.407	1.00 26.23	N
ATOM	674	CA	ILE		90	15.201	28.419	9.826	1.00 26.62	C
ATOM	675	C	ILE		90	14.351	29.656	10.103	1.00 24.72	C
ATOM	676	0	ILE		90	13.337	29.570	10.790	1.00 26.06	0
ATOM	677	СВ	ILE		90	16.528	28.476	10.635	1.00 24.11	C
ATOM	678	CG1	ILE		90	17.212	27.104	10.572	1.00 25.62	C
ATOM	679	CG2	ILE		90	16.264	28.891	12.078	1.00 21.05	С
ATOM	680	CD1	ILE	А	90	18.523	27.005	11.318	1.00 24.81	С
ATOM	681	N	ILE	А	91	14.749	30.799	9.556	1.00 24.73	N
ATOM	682	CA	ILE	А	91	14.004	32.039	9.777	1.00 23.15	С
ATOM	683	С	ILE	А	91	12.553	31.977	9.291	1.00 23.62	С
ATOM	684	0	ILE	Α	91	11.645	32.424	9.988	1.00 23.03	0
ATOM	685	СВ	ILE	А	91	14.751	33.254	9.183	1.00 19.75	С
ATOM	686	CG1	ILE	Α	91	16.033	33.498	9.976	1.00 16.64	С
ATOM	687	CG2	ILE	А	91	13.882	34.495	9.222	1.00 19.98	С
MOTA	688	CD1	ILE	А	91	16.906	34.608	9.421	1.00 17.13	С
ATOM	689	N	HIS		92	12.329	31.392	8.119	1.00 23.77	N
ATOM	690	CA	HIS		92	10.975	31.278	7.585	1.00 23.91	С
ATOM	691	С	HIS		92	10.151	30.235	8.344	1.00 25.62	С
ATOM	692	0	HIS		92	8.987	30.476	8.655	1.00 26.83	0
ATOM	693	СВ	HIS		92	10.995	30.927	6.102	1.00 22.99	С
ATOM	694	CG	HIS		92	9.662	31.070	5.436	1.00 27.47	С
ATOM	695		HIS		92	9.011	30.015	4.832	1.00 26.88	N
ATOM	696		HIS		92	8.856	32.148	5.282	1.00 25.84	C
ATOM	697		HIS		92	7.864	30.438	4.331	1.00 26.81	C
ATOM	698		HIS		92	7.746	31.728	4.591	1.00 30.26	N
ATOM	699	N	ALA		93	10.741	29.071	8.616	1.00 24.22 1.00 23.43	N C
ATOM ATOM	700 701	CA C	ALA ALA		93 93	10.046 9.685	28.016 28.508	9.358 10.748	1.00 23.43	C
ATOM	702	0	ALA		93	8.629	28.167	11.274	1.00 23.27	0
ATOM	703	CB	ALA		93	10.906	26.787	9.470	1.00 29.30	C
7 7 T O I-1	, 00	CL	7.7.T.Z.	7.7	, ,	10.700	20.707	J.=/U	T.OO TO.4T	C

ATOM	704	N	ALA	Α	94	10.572	29.301	11.347	1.00	24.57	N
ATOM	705	CA	ALA	Α	94	10.333	29.841	12.678	1.00	24.51	С
ATOM	706	С	ALA	Α	94	9.090	30.714	12.655	1.00	26.61	С
ATOM	707	0	ALA	Α	94	8.182	30.526	13.458	1.00	31.53	0
ATOM	708	СВ	ALA	Α	94	11.545	30.644	13.166	1.00	18.87	С
ATOM	709	N	HIS	Α	95	9.020	31.623	11.689	1.00	27.32	N
ATOM	710	CA	HIS	Α	95	7.880	32.517	11.578	1.00	25.48	С
ATOM	711	С	HIS	Α	95	6.591	31.760	11.300	1.00	24.07	С
ATOM	712	0	HIS	Α	95	5.562	32.064	11.895	1.00	24.98	0
ATOM	713	СВ	HIS	Α	95	8.093	33.554	10.485	1.00	20.05	С
ATOM	714	CG	HIS		95	6.853	34.327	10.165	1.00	25.10	С
ATOM	715	ND1	HIS		95	6.100	34.093	9.032	1.00	27.73	N
ATOM	716		HIS		95	6.191	35.278	10.865	1.00	19.55	С
ATOM	717	CE1	HIS		95	5.028	34.864	9.051	1.00	23.37	С
ATOM	718	NE2	HIS		95	5.060	35.592	10.153	1.00	23.51	N
ATOM	719	N	GLN		96	6.652	30.808	10.374		23.71	N
ATOM	720	CA	GLN		96	5.497	29.987	10.008		28.30	C
ATOM	721	C	GLN		96	4.920	29.240	11.199		29.03	C
ATOM	722	0	GLN		96	3.750	28.880	11.196		33.97	0
ATOM	723	СВ	GLN		96	5.893	28.943	8.969		30.65	C
ATOM	724	CG	GLN		96	6.278	29.474	7.633		41.03	C
ATOM	725	CD	GLN		96	5.088	29.798	6.765		47.85	C
ATOM	726	OE1	GLN		96	4.523	30.898	6.847	1.00	52.60	0
ATOM	727	NE2	GLN		96	4.710	28.851	5.902		46.62	N
ATOM	728	N	ASN		97	5.756	28.964	12.202	1.00	27.87	N
	729	CA			97		28.219	13.388		27.23	C
ATOM			ASN		97	5.330 5.291			1.00		C
ATOM	730	С	ASN				29.030	14.676	1.00	27.97	
ATOM	731	0	ASN		97	5.416	28.499	15.783		31.31	0
ATOM	732	CB	ASN		97	6.188	26.961	13.541	1.00	24.97	С
ATOM	733	CG	ASN		97	5.945	25.966	12.422		31.23	C
ATOM	734	OD1	ASN		97	6.678	25.939	11.430		35.80	0
ATOM	735	ND2	ASN		97	4.884	25.181	12.547	1.00	30.89	N
ATOM	736	N	ASP		98	5.093	30.330	14.516		30.60	N
ATOM	737	CA	ASP		98	4.997	31.251	15.636		34.56	C
ATOM	738	С	ASP		98	6.119	31.410	16.631		34.83	C
ATOM	739	0	ASP		98	5.858	31.768	17.773		37.00	0
ATOM	740	СВ	ASP		98	3.670	31.073	16.372		42.60	C
ATOM	741	CG		А	98	2.507	31.683	15.617	1.00	49.29	С
ATOM	742	OD1	ASP		98	2.562	32.910	15.341		55.67	0
ATOM	743		ASP		98	1.562	30.936	15.286		57.67	0
ATOM	744	N	VAL		99	7.356	31.151	16.204		33.38	N
ATOM	745	CA	VAL		99	8.492	31.368	17.087		28.21	С
ATOM	746	С	VAL		99	8.752	32.871	16.919		27.85	С
ATOM	747	0	VAL		99	9.090	33.342	15.824		28.51	0
ATOM	748	СВ	VAL		99	9.736	30.576	16.672		29.62	С
ATOM	749		VAL		99	10.838	30.774	17.699		26.80	С
ATOM	750	CG2	VAL		99	9.400	29.110	16.499		30.83	С
ATOM	751	N	ASN			8.537	33.630	17.985		24.40	N
ATOM	752	CA	ASN			8.707	35.073	17.924		25.38	С
MOTA	753	С	ASN	Α	100	10.125	35.577	18.208	1.00	26.01	С
ATOM	754	0	ASN	А	100	10.494	36.678	17.781		26.31	0
ATOM	755	CB	ASN	Α	100	7.713	35.749	18.869		22.78	С
ATOM	756	CG	ASN	Α	100	7.384	37.150	18.441	1.00	23.65	С
ATOM	757	OD1	ASN	Α	100	6.840	37.361	17.357	1.00	26.63	0
ATOM	758	ND2	ASN	Α	100	7.748	38.124	19.260	1.00	22.16	N
ATOM	759	N	LYS	Α	101	10.907	34.775	18.930	1.00	24.59	N

ATOM	760	CA	LYS	Α	101	12.272	35.157	19.291	1.00 27.58	С
ATOM	761	С	LYS	Α	101	13.348	34.367	18.567	1.00 25.12	С
ATOM	762	0	LYS	Α	101	13.324	33.141	18.523	1.00 24.26	0
ATOM	763	СВ	LYS			12.488	35.018	20.798	1.00 25.44	С
ATOM	764	CG	LYS			12.020	36.194	21.616	1.00 24.49	C
ATOM	765	CD	LYS			12.599	36.066	23.008	1.00 26.85	С
ATOM	766	CE	LYS			12.971	37.409	23.586	1.00 28.02	С
ATOM	767	NZ	LYS	Α	101	13.940	38.154	22.745	1.00 28.99	N
ATOM	768	N	LEU	Α	102	14.331	35.084	18.044	1.00 24.26	N
ATOM	769	CA	LEU	Α	102	15.423	34.442	17.332	1.00 22.79	С
ATOM	770	С	LEU			16.649	35.334	17.378	1.00 22.92	С
ATOM	771	0	LEU			16.525	36.562	17.420	1.00 20.27	0
									1.00 20.27	
ATOM	772	CB	LEU			15.009	34.137	15.884		C
ATOM	773	CG	LEU			15.956	33.443	14.894	1.00 23.80	С
ATOM	774	CD1	LEU	Α	102	15.156	32.613	13.903	1.00 20.74	С
ATOM	775	CD2	LEU	Α	102	16.818	34.457	14.169	1.00 19.60	С
ATOM	776	N	LEU	Α	103	17.818	34.707	17.513	1.00 20.09	N
ATOM	777	CA	LEU	Α	103	19.075	35.438	17.518	1.00 19.90	С
ATOM	778	С	LEU			19.950	34.876	16.403	1.00 20.69	C
ATOM	779	0	LEU			20.236	33.679	16.361	1.00 19.79	0
ATOM	780	CB	LEU			19.813	35.311	18.848	1.00 22.09	C
ATOM	781	CG	LEU			21.070	36.184	18.836	1.00 19.35	С
MOTA	782	CD1	LEU	А	103	20.684	37.626	19.161	1.00 17.91	С
ATOM	783	CD2	LEU	Α	103	22.074	35.667	19.833	1.00 20.28	С
ATOM	784	N	PHE	Α	104	20.327	35.746	15.474	1.00 19.27	N
ATOM	785	CA	PHE	Α	104	21.164	35.369	14.347	1.00 21.13	С
ATOM	786	С	PHE			22.614	35.782	14.628	1.00 22.17	С
ATOM	787	0	PHE			22.881	36.938	14.966	1.00 22.36	0
ATOM	788	CB	PHE			20.635	36.045	13.071	1.00 19.61	C
ATOM	789	CG	PHE			21.501	35.838	11.864	1.00 21.08	С
ATOM	790	CD1	PHE	Α	104	21.678	34.569	11.327	1.00 22.45	С
ATOM	791	CD2	PHE	А	104	22.152	36.920	11.268	1.00 22.15	С
ATOM	792	CE1	PHE	Α	104	22.492	34.376	10.211	1.00 21.84	С
ATOM	793	CE2	PHE	Α	104	22.965	36.739	10.153	1.00 19.34	С
ATOM	794	CZ	PHE	Α	104	23.135	35.465	9.626	1.00 20.01	С
ATOM	795	N	LEU			23.529	34.815	14.560	1.00 24.95	N
ATOM	796	CA	LEU			24.947	35.077	14.785	1.00 24.08	C
	797	C	LEU						1.00 23.94	C
ATOM						25.615	35.288	13.454		
ATOM	798	0	LEU			25.662	34.387	12.618	1.00 24.97	0
ATOM	799	СВ	LEU			25.617		15.532	1.00 25.82	С
ATOM	800	CG	LEU			25.259	33.904	17.013	1.00 32.42	С
ATOM	801	CD1	LEU	Α	105	24.000	33.077	17.222	1.00 34.59	С
ATOM	802	CD2	LEU	Α	105	26.408	33.320	17.810	1.00 39.53	С
ATOM	803	N	GLY	Α	106	26.081	36.507	13.238	1.00 24.52	N
ATOM	804	CA			106	26.729	36.823	11.987	1.00 28.38	С
ATOM	805	C			106	28.231	36.642	12.051	1.00 31.04	C
	806				106	28.729	35.674	12.629	1.00 31.04	0
ATOM		0								
ATOM	807	N			107	28.945	37.614	11.491	1.00 33.31	N
ATOM	808	CA			107	30.398	37.610	11.437	1.00 34.34	С
ATOM	809	С			107	30.922	39.026	11.234	1.00 34.11	С
ATOM	810	0	SER	Α	107	30.187	39.946	10.894	1.00 36.15	0
ATOM	811	СВ	SER	А	107	30.875	36.715	10.288	1.00 33.89	С
ATOM	812	OG			107	32.282	36.747	10.171	1.00 42.44	0
ATOM	813	N			108	32.221	39.174	11.417	1.00 39.10	N
ATOM	814	CA			108	32.900	40.445	11.272	1.00 39.74	C
		C								
ATOM	815		SEK	А	108	33.242	40.737	9.800	1.00 40.29	С

ATOM	816	0	SER	Α	108	33.494	41.886	9.424	1.00	39.37	0
ATOM	817	СВ			108	34.183	40.379	12.096		41.29	С
ATOM	818	OG	SER	Α	108	34.636	41.671	12.405	1.00	48.91	0
ATOM	819	N	CYS	Α	109	33.247	39.684	8.981	1.00	39.93	N
ATOM	820	CA	CYS	Α	109	33.572	39.755	7.554	1.00	37.55	С
ATOM	821	С	CYS	Α	109	32.605	40.592	6.748	1.00	35.15	С
ATOM	822	0	CYS	Α	109	32.905	40.967	5.620	1.00	40.63	0
ATOM	823	СВ	CYS	Α	109	33.563	38.352	6.955	1.00	42.94	С
ATOM	824	SG	CYS	Α	109	34.457	37.166	7.928	1.00	53.93	S
ATOM	825	N	ILE	Α	110	31.425	40.832	7.299	1.00	31.38	N
ATOM	826	CA	ILE	Α	110	30.395	41.604	6.612	1.00	29.42	С
MOTA	827	С	ILE	Α	110	30.752	43.076	6.393	1.00	25.36	С
ATOM	828	0	ILE	Α	110	30.086	43.764	5.628	1.00	26.86	0
ATOM	829	CB	ILE	Α	110	29.041	41.565	7.386	1.00	33.31	С
ATOM	830	CG1	ILE	Α	110	29.162	42.364	8.697		38.51	С
ATOM	831	CG2	ILE	Α	110	28.627	40.127	7.672	1.00	29.58	С
ATOM	832	CD1	ILE	Α	110	27.837	42.813	9.315	1.00	38.77	С
ATOM	833	N	TYR			31.760	43.582	7.090		21.85	N
ATOM	834	CA	TYR			32.109	44.986	6.939		20.03	С
ATOM	835	С	TYR			32.999	45.277	5.750		22.43	С
ATOM	836	0	TYR			33.749	44.411	5.305		20.86	0
MOTA	837	СВ	TYR			32.715	45.527	8.228		15.08	С
ATOM	838	CG	TYR			31.673	45.688	9.290		17.60	С
ATOM	839	CD1	TYR			30.623	46.607	9.134		20.30	С
ATOM	840	CD2	TYR			31.700	44.907	10.433		18.94	С
ATOM	841	CE1	TYR			29.623	46.739	10.102		16.41	С
ATOM	842	CE2	TYR			30.709	45.029	11.414		22.50	С
ATOM	843	CZ	TYR			29.677	45.945	11.245		20.99	С
ATOM	844	ОН	TYR			28.740	46.078	12.246		22.59	0
ATOM	845	N	PRO			32.895	46.497	5.193		23.64	N
ATOM	846	CA			112	33.703	46.906	4.041		23.42	С
ATOM	847	C	PRO			35.180	46.693	4.356		25.37	С
ATOM	848	0	PRO			35.591	46.816	5.505		24.92	0
ATOM	849	CB	PRO			33.382	48.387	3.918		21.66	С
ATOM	850 051	CG	PRO			31.972	48.467	4.414 5.622		27.17	C
ATOM ATOM	851 852	CD N	PRO LYS		113	32.004 35.960	47.589 46.330	3.344		25.03 28.77	И
ATOM	853	CA	LYS			37.392	46.098	3.512		33.94	C
ATOM	854	CA			113	38.099	47.351	4.071		35.82	C
ATOM	855	0			113	38.917	47.267	4.999		35.60	0
ATOM	856	CB			113	38.000	45.701	2.164		36.30	C
ATOM	857	CG			113	39.470	45.376	2.227		45.37	C
ATOM	858	CD			113	40.091	45.338	0.839		54.03	C
ATOM	859	CE			113	41.606	45.132	0.946		56.48	C
ATOM	860	NZ			113	42.287	45.217	-0.378		59.58	N
ATOM	861	N			114	37.733	48.511	3.529		37.76	N
ATOM	862	CA	LEU			38.315	49.788	3.935		39.22	C
ATOM	863	C			114	37.414	50.622	4.842		37.04	C
ATOM	864	0	LEU			37.354	51.839	4.714		41.23	0
ATOM	865	СВ			114	38.696	50.597	2.693		39.94	C
ATOM	866	CG			114	39.706	49.884	1.792		45.05	C
ATOM	867		LEU			39.901	50.688	0.528		45.75	C
ATOM	868		LEU			41.034	49.663	2.524		40.39	C
ATOM	869	N			115	36.741	49.970	5.779		35.28	N
ATOM	870	CA			115	35.857	50.659	6.704		33.09	С
ATOM	871	С			115	36.613	51.598	7.662		35.11	С

ATOM	872	0	ALA	Α	115	37.822	51.473	7.855	1.00	34.89	0
ATOM	873	СВ			115	35.052	49.638	7.492		31.08	C
ATOM	874	N			116	35.888	52.560	8.226		36.33	N
	875					36.429		9.179		35.52	
ATOM		CA			116		53.523				С
ATOM	876	С			116	36.601	52.744	10.480		32.90	С
ATOM	877	0			116	35.722	51.961	10.838		32.39	0
ATOM	878	CB			116	35.417	54.661	9.372	1.00		С
ATOM	879	CG	LYS	Α	116	35.831	55.754	10.353	1.00	54.48	С
MOTA	880	CD	LYS	Α	116	34.605	56.562	10.799	1.00	64.13	С
ATOM	881	CE	LYS	Α	116	34.956	57.655	11.814	1.00	69.67	С
ATOM	882	NΖ	LYS	Α	116	35.652	58.833	11.194	1.00	73.03	N
ATOM	883	N			117	37.721	52.952	11.175		29.00	N
ATOM	884	CA			117	38.012	52.242	12.428	1.00	26.52	С
ATOM	885	C			117	37.918	53.135	13.671		27.16	C
ATOM	886	0	GLN		117	38.391	54.265	13.662	1.00	32.28	0
								12.371	1.00	24.33	C
ATOM	887	CB			117	39.419	51.630				
ATOM	888	CG			117	39.689	50.728	11.180		19.77	С
ATOM	889	CD			117	38.842	49.479	11.197		22.38	С
ATOM	890	OE1			117	38.534	48.929	12.262		23.93	0
ATOM	891	NE2	GLN	Α	117	38.455	49.018	10.013		21.03	N
ATOM	892	N	PRO	Α	118	37.284	52.648	14.750	1.00	26.44	N
ATOM	893	CA	PRO	Α	118	36.656	51.325	14.875	1.00	28.65	С
MOTA	894	С	PRO	Α	118	35.358	51.288	14.066	1.00	26.51	С
ATOM	895	0	PRO	Α	118	34.771	52.334	13.786	1.00	24.82	0
ATOM	896	СВ	PRO	Α	118	36.418	51.196	16.384	1.00	26.96	С
ATOM	897	CG			118	36.227	52.620	16.815	1.00	26.14	С
ATOM	898	CD			118	37.309	53.336	16.050		25.13	C
ATOM	899	N			119	34.942	50.091	13.665	1.00	26.63	N
ATOM	900	CA			119	33.749	49.919	12.844		23.21	C
	901	C					49.884			24.45	C
ATOM					119	32.423		13.585			
ATOM	902	0			119	32.122	48.931	14.310		24.24	0
ATOM	903	CB			119	33.889	48.668	11.988		21.81	С
ATOM	904	CG			119	35.163	48.642	11.187	1.00	22.20	С
ATOM	905	SD			119	35.268	47.217	10.106	1.00	27.33	S
ATOM	906	CE			119	35.589	45.888	11.303	1.00	19.94	С
ATOM	907	N			120	31.627	50.932	13.395	1.00	22.55	N
ATOM	908	CA			120	30.315	51.003	14.015	1.00	23.74	С
ATOM	909	С	ALA	Α	120	29.368	50.216	13.107	1.00	23.58	С
ATOM	910	0	ALA	Α	120	29.697	49.932	11.950	1.00	20.35	0
ATOM	911	CB	ALA	Α	120	29.864	52.453	14.141	1.00	21.01	С
ATOM	912	N	GLU	Α	121	28.209	49.848	13.648	1.00	22.80	N
ATOM	913	CA	GLU	Α	121	27.207	49.081	12.920	1.00	19.02	С
ATOM	914	С			121	26.786	49.706	11.599		20.31	С
ATOM	915	0			121	26.491	48.998	10.619		22.22	0
ATOM	916	СВ			121	25.987	48.857	13.806		17.19	C
ATOM	917	CG			121	26.207	47.824	14.907		20.42	C
ATOM	918	CD			121	26.826	48.376	16.195		22.19	C
	919	OE1			121	27.281	49.541	16.236		22.90	0
ATOM											
ATOM	920	OE2				26.849	47.627	17.192		24.76	0
ATOM	921	N			122	26.811	51.034	11.565		19.68	N
ATOM	922	CA			122	26.427	51.815	10.387		22.94	C
ATOM	923	С			122	27.431	51.737	9.242		24.18	С
ATOM	924	0			122	27.248	52.354	8.192		28.79	0
ATOM	925	СВ			122	26.230	53.278	10.784		24.75	С
ATOM	926	OG			122	27.409	53.785	11.388		27.14	0
ATOM	927	N	GLU	Α	123	28.489	50.970	9.445	1.00	24.97	N

ATOM 928 CA GLU A 123	ATOM	928	CA	GLII	Δ	123	29.514	50.802	8.439	1.00 22.55	С
ATOM 930 O GLU A 123 29.671 49.529 6.378 1.00 21.99 O CATOM 931 CB GUU A 123 30.807 50.423 9.141 1.00 27.06 C CATOM 932 CG GLU A 123 32.038 50.922 8.458 1.00 35.87 C ATOM 934 OEI GLU A 123 32.101 52.431 8.375 1.00 33.11 C C ATOM 934 OEI GLU A 123 32.121 52.431 8.375 1.00 33.11 C C ATOM 935 OE2 GLU A 123 32.203 8.998 7.285 1.00 38.10 O C ATOM 936 N EU A 124 28.013 48.998 7.817 1.00 22.39 N ATOM 937 CA LEU A 124 27.478 47.932 6.990 1.00 25.61 C C ATOM 939 O LEU A 124 27.066 48.450 5.621 1.00 26.76 C ATOM 939 O LEU A 124 27.066 48.450 5.621 1.00 26.76 C C ATOM 939 O LEU A 124 28.013 48.450 5.621 1.00 26.76 C C ATOM 939 O LEU A 124 28.634 49.9477 5.526 1.00 38.10 C C ATOM 940 CB LEU A 124 28.640 49.477 5.526 1.00 28.07 O C ATOM 940 CB LEU A 124 28.640 49.477 7.062 1.00 30.81 C C ATOM 940 CB LEU A 124 28.640 49.477 7.062 1.00 30.81 C C ATOM 940 CB LEU A 124 28.696 44.9977 7.062 1.00 30.81 C C ATOM 940 CB LEU A 124 28.5764 46.056 6.934 1.00 27.57 C ATOM 942 CD LEU A 124 28.459 45.584 7.151 1.00 28.07 C C ATOM 946 C LEU A 125 27.464 47.742 4.571 1.00 26.51 N ATOM 945 CA LEU A 125 27.464 47.742 4.571 1.00 26.51 N ATOM 945 CA LEU A 125 27.160 48.086 31.89 1.00 33.72 O C ATOM 946 C LEU A 125 27.160 48.086 31.89 1.00 33.72 O C ATOM 947 O LEU A 125 27.284 49.919 1.688 1.00 33.72 O C ATOM 947 O LEU A 125 27.284 49.919 1.688 1.00 33.72 O C ATOM 940 CD LEU A 125 25.3471 46.742 3.094 1.00 23.91 C C ATOM 940 CD LEU A 125 25.3471 46.742 3.094 1.00 33.38 C C ATOM 950 CD LEU A 125 25.3471 46.745 3.094 1.00 33.38 C C ATOM 950 CD LEU A 125 25.3471 46.742 3.094 1.00 33.38 C C ATOM 957 CD LEU A 125 25.3471 46.742 3.094 1.00 33.38 C C ATOM 957 CD LEU A 125 25.369 51.251 2.994 1.00 33.38 C C ATOM 957 CD LEU A 125 25.3471 46.742 3.094 1.00 33.38 C C ATOM 957 CD LEU A 125 25.3471 46.742 3.094 1.00 33.38 C C ATOM 957 CD LEU A 125 25.3471 46.742 3.094 1.00 33.38 C C ATOM 957 CD LEU A 126 27.961 53.556 4.697 7.10 33.38 C C ATOM 957 CD LEU A 126 33.415 46.637 CD 1.00 33.38 C C ATOM 957 CD LEU A 126 33.415 46.637 CD 1.00 33.38 C C ATOM 957 CD											
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ATOM 936 N LEU A 124 28.013 48.998 7.817 1.00 24.39 N ATOM 937 CA LEU A 124 27.478 47.932 6.990 1.00 25.61 C ATOM 938 C LEU A 124 27.066 48.450 5.621 1.00 26.76 C ATOM 939 O LEU A 124 26.267 47.298 7.663 1.00 26.07 O ATOM 940 CB LEU A 124 26.267 47.298 7.663 1.00 26.07 O ATOM 941 CG LEU A 124 26.267 47.298 7.663 1.00 27.57 C ATOM 941 CG LEU A 124 26.267 47.298 7.663 1.00 27.57 C ATOM 941 CG LEU A 124 26.267 47.298 7.663 1.00 27.57 C ATOM 942 CD1 LEU A 124 26.261 44.997 7.062 1.00 30.71 C ATOM 943 CD2 LEU A 124 26.816 44.997 7.062 1.00 30.71 C ATOM 944 N LEU A 125 27.484 47.742 4.571 1.00 26.51 N ATOM 945 CA LEU A 125 27.484 47.742 4.571 1.00 26.51 N ATOM 946 C LEU A 125 27.146 48.986 3.189 1.00 23.73 C ATOM 946 C LEU A 125 27.146 49.919 1.638 1.00 31.00 C ATOM 949 CG LEU A 125 27.244 49.919 1.638 1.00 31.00 C ATOM 949 CG LEU A 125 27.344 49.919 1.638 1.00 31.00 C ATOM 949 CG LEU A 125 27.344 49.919 1.638 1.00 31.00 C ATOM 949 CG LEU A 125 25.634 48.017 2.968 1.00 31.00 C ATOM 949 CG LEU A 125 25.634 48.017 2.968 1.00 23.17 C ATOM 949 CG LEU A 125 25.634 48.017 2.968 1.00 23.17 C ATOM 951 CD2 LEU A 125 25.362 45.964 1.733 1.00 25.69 C ATOM 951 CD2 LEU A 125 25.3471 46.742 3.054 1.00 26.25 C ATOM 951 CD2 LEU A 125 25.362 45.964 1.733 1.00 25.69 C ATOM 951 CD2 LEU A 125 25.362 45.964 1.733 1.00 25.69 C ATOM 955 N GIN A 126 28.719 49.967 3.369 1.00 33.38 N ATOM 955 C GIN A 126 31.995 52.215 1.690 1.00 33.38 N ATOM 955 C GIN A 126 29.328 51.251 2.994 1.00 38.33 C ATOM 956 C GIN A 126 29.328 51.251 1.904 1.00 35.51 C ATOM 956 C GIN A 126 29.328 51.251 1.904 1.00 35.51 C ATOM 957 CG GIN A 126 29.328 51.251 1.904 1.00 35.51 C ATOM 958 CD GIN A 126 29.328 51.251 1.904 1.00 35.51 C ATOM 958 CD GIN A 126 29.328 51.251 1.904 1.00 35.51 C ATOM 960 CD GIN A 126 27.548 54.455 0.00 1.00 24.420 C ATOM 960 CD GIN A 126 27.548 54.455 0.00 1.00 24.420 C ATOM 960 CD GIN A 126 27.548 54.455 0.00 1.00 24.420 C ATOM 960 CD GIN A 126 27.548 54.455 0.00 1.00 25.77 C C ATOM 960 CD GIN A 126 27.548 54.455 0.00 1.00 25.80 C C GIN A 126 27.	ATOM	935	OE2	GLU	Α	123	32.423	52.945	7.285	1.00 38.10	0
ATOM 937 CA LEU A 124 27.478 47.932 6.990 1.00 25.61 C ATOM 938 C LEU A 124 27.066 48.450 5.621 1.00 26.76 C ATOM 939 O LEU A 124 26.404 49.477 5.526 1.00 26.76 C ATOM 940 CB LEU A 124 26.404 49.477 5.526 1.00 26.76 C ATOM 940 CB LEU A 124 26.267 47.298 7.663 1.00 26.76 C ATOM 941 CG LEU A 124 26.267 47.298 7.663 1.00 26.76 C ATOM 942 CD1 LEU A 124 26.816 44.977 7.062 1.00 30.81 C ATOM 942 CD1 LEU A 124 26.816 44.977 7.062 1.00 30.81 C ATOM 944 N LEU A 125 27.484 47.742 4.571 1.00 26.551 N ATOM 945 CA LEU A 125 27.484 47.742 4.571 1.00 28.73 C ATOM 945 CA LEU A 125 27.160 48.086 3.189 1.00 28.73 C ATOM 946 C LEU A 125 27.284 49.919 1.638 1.00 33.72 C ATOM 948 CD LEU A 125 27.284 49.919 1.638 1.00 33.72 C ATOM 948 CD LEU A 125 27.284 49.919 1.638 1.00 33.72 C ATOM 949 CG LEU A 125 24.978 46.630 2.979 1.00 23.17 C ATOM 940 CD LEU A 125 24.978 46.630 2.979 1.00 23.91 C ATOM 950 CD1 LEU A 125 25.634 48.017 2.968 1.00 31.00 C C ATOM 950 CD1 LEU A 125 23.471 46.742 3.054 1.00 26.25 C ATOM 951 CD2 LEU A 125 25.3634 48.017 2.968 1.00 33.38 N ATOM 952 C A GLN A 126 28.719 49.967 3.369 1.00 33.38 N ATOM 952 C A GLN A 126 30.495 51.190 2.011 1.00 35.24 C ATOM 955 C A GLN A 126 30.495 51.190 2.011 1.00 35.24 C ATOM 955 C A GLN A 126 30.495 51.190 2.011 1.00 35.24 C ATOM 955 C A GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 955 C A GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 957 C A GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 958 C B GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 958 C B GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 958 C B GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 958 C B GLN A 126 29.328 51.251 2.994 1.00 33.38 C ATOM 958 C B GLN A 126 29.328 51.251 2.994 1.00 33.38 C C ATOM 958 C B GLN A 126 29.316 51.90 2.011 1.00 35.24 C C ATOM 958 C B GLN A 126 29.316 51.90 2.011 1.00 35.24 C C ATOM 958 C B GLN A 126 29.316 51.90 2.011 1.00 35.24 C C ATOM 958 C B GLN A 126 29.316 51.90 2.011 1.00 35.24 C C ATOM 958 C B GLN A 126 29.316 48.90 2.013 1.00 2.014 1.00 35.24 C C ATOM 958 C B GLN A 126 29.			N								
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ATOM 960 NE2 GLN A 126 27.548 54.415 5.610 1.00 51.29 N ATOM 961 N GLY A 127 30.842 50.003 1.544 1.00 31.57 N ATOM 962 CA GLY A 127 31.955 49.902 0.632 1.00 27.05 C ATOM 963 C GLY A 127 32.162 48.465 0.237 1.00 28.42 C ATOM 965 N THR A 128 33.115 48.246 -0.653 1.00 30.18 N ATOM 966 CA THR A 128 33.315 48.246 -0.653 1.00 32.00 C ATOM 967 C THR A 128 33.940 45.949 -0.102 1.00 30.18 C ATOM 968 O THR A 128 34.695 46.342 0.796 1.00 30.18 C ATOM 969 CB THR A 128 34.695 46.342 0.796 1.00 30.42 O ATOM 969 CB THR A 128 34.230 46.923 -2.456 1.00 33.85 C ATOM 970 OG1 THR A 128 33.589 47.227 -2.143 1.00 39.54 O ATOM 971 CG2 THR A 128 33.528 44.692 -0.230 1.00 26.65 N ATOM 973 CA LEU A 129 33.528 44.692 -0.230 1.00 26.74 C ATOM 974 C LEU A 129 33.945 43.617 0.650 1.00 25.80 O ATOM 975 O LEU A 129 35.778 43.179 -0.856 1.00 25.80 O ATOM 977 CG LEU A 129 33.447 42.903 1.067 1.00 25.80 O ATOM 979 CD LEU A 129 31.479 42.903 1.067 1.00 25.07 C ATOM 979 CD LEU A 129 31.479 42.903 1.067 1.00 25.07 C ATOM 979 CD LEU A 129 31.479 42.903 1.067 1.00 25.07 C ATOM 979 CD LEU A 129 31.487 43.123 2.568 1.00 25.07 C ATOM 970 CG LEU A 129 31.487 43.123 2.568 1.00 25.07 C ATOM 970 CG LEU A 129 31.487 43.123 2.568 1.00 25.63 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 981 CA GLU A 130 35.924 42.357 1.249 1.00 25.63 C	ATOM	958	CD	GLN	Α	126	27.961	53.556	4.687	1.00 46.67	С
ATOM 961 N GLY A 127 30.842 50.003 1.544 1.00 31.57 N ATOM 962 CA GLY A 127 31.955 49.902 0.632 1.00 27.05 C ATOM 963 C GLY A 127 32.162 48.465 0.237 1.00 28.42 C ATOM 965 N THR A 128 33.115 48.246 -0.653 1.00 30.18 N ATOM 966 CA THR A 128 33.115 48.246 -0.653 1.00 30.18 N ATOM 967 C THR A 128 33.940 45.949 -0.102 1.00 30.18 C ATOM 968 O THR A 128 34.695 46.342 0.796 1.00 30.18 C ATOM 969 CB THR A 128 34.695 46.342 0.796 1.00 30.42 O ATOM 970 OG1 THR A 128 34.230 46.923 -2.456 1.00 33.85 C ATOM 971 CG2 THR A 128 33.589 47.227 -2.143 1.00 39.54 O ATOM 972 N LEU A 129 33.528 44.692 -0.230 1.00 26.65 N ATOM 973 CA LEU A 129 33.945 43.617 0.650 1.00 26.74 C ATOM 974 C LEU A 129 33.945 43.617 0.650 1.00 25.80 O ATOM 975 C LEU A 129 35.306 43.021 0.272 1.00 25.84 C ATOM 976 CB LEU A 129 32.887 42.506 0.620 1.00 24.20 C ATOM 977 CG LEU A 129 33.448 41.853 0.667 1.00 25.07 C ATOM 979 CD1 LEU A 129 31.487 42.903 1.067 1.00 25.07 C ATOM 979 CD2 LEU A 129 31.487 43.237 2.568 1.00 23.65 C ATOM 979 CD2 LEU A 129 31.487 43.237 2.568 1.00 23.65 C ATOM 979 CD2 LEU A 129 31.487 43.237 2.568 1.00 23.65 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 981 CA GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 981 CA GLU A 130 35.924 42.357 1.249 1.00 25.63 C	ATOM	959	OE1	GLN	Α	126	27.751	53.718	3.482	1.00 47.42	0
ATOM 962 CA GLY A 127 31.955 49.902 0.632 1.00 27.05 C ATOM 963 C GLY A 127 32.162 48.465 0.237 1.00 28.42 C ATOM 964 O GLY A 127 31.510 47.561 0.757 1.00 29.17 O ATOM 965 N THR A 128 33.115 48.246 -0.653 1.00 30.18 N ATOM 966 CA THR A 128 33.368 46.907 -1.145 1.00 32.00 C ATOM 967 C THR A 128 33.940 45.949 -0.102 1.00 30.18 C ATOM 968 O THR A 128 34.695 46.342 0.796 1.00 30.18 C ATOM 969 CB THR A 128 34.230 46.923 -2.456 1.00 33.85 C ATOM 970 OG1 THR A 128 35.589 47.227 -2.143 1.00 39.54 O ATOM 971 CG2 THR A 128 33.702 47.974 -3.437 1.00 32.70 C ATOM 972 N LEU A 129 33.528 44.692 -0.230 1.00 26.65 N ATOM 973 CA LEU A 129 33.945 43.617 0.650 1.00 25.84 C ATOM 974 C LEU A 129 35.306 43.021 0.272 1.00 25.84 C ATOM 975 O LEU A 129 35.778 43.179 -0.856 1.00 25.80 O ATOM 976 CB LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 977 CG LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 978 CD1 LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 979 CD2 LEU A 129 31.487 43.130 36.841 40.497 0.125 1.00 25.63 C ATOM 980 N GLU A 130 37.186 41.654 1.082 1.00 25.63 C ATOM 981 CA GLU A 130 37.186 41.654 1.082 1.00 25.63 C	ATOM	960	NE2	GLN	Α	126	27.548	54.415	5.610	1.00 51.29	N
ATOM 963 C GLY A 127 32.162 48.465 0.237 1.00 28.42 C ATOM 964 O GLY A 127 31.510 47.561 0.757 1.00 29.17 O ATOM 965 N THR A 128 33.115 48.246 -0.653 1.00 30.18 N ATOM 966 CA THR A 128 33.368 46.907 -1.145 1.00 32.00 C ATOM 967 C THR A 128 33.940 45.949 -0.102 1.00 30.18 C ATOM 968 O THR A 128 34.695 46.342 0.796 1.00 30.42 O ATOM 969 CB THR A 128 34.230 46.923 -2.456 1.00 33.85 C ATOM 970 OG1 THR A 128 35.589 47.227 -2.143 1.00 39.54 O ATOM 971 CG2 THR A 128 33.702 47.974 -3.437 1.00 39.54 O ATOM 972 N LEU A 129 33.528 44.692 -0.230 1.00 26.65 N ATOM 973 CA LEU A 129 33.945 43.617 0.650 1.00 26.74 C ATOM 974 C LEU A 129 35.306 43.021 0.272 1.00 25.84 C ATOM 976 CB LEU A 129 35.778 43.179 -0.856 1.00 25.80 O ATOM 977 CG LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 977 CG LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 978 CD1 LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 978 CD1 LEU A 129 31.479 42.903 1.067 1.00 25.34 N ATOM 978 CD2 LEU A 129 31.479 42.903 1.067 1.00 25.34 N ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 981 CA GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 982 C GLU A 130 36.841 40.497 0.125 1.00 23.70 C	ATOM	961	N	GLY	Α	127	30.842	50.003	1.544	1.00 31.57	N
ATOM 963 C GLY A 127 32.162 48.465 0.237 1.00 28.42 C ATOM 964 O GLY A 127 31.510 47.561 0.757 1.00 29.17 O ATOM 965 N THR A 128 33.115 48.246 -0.653 1.00 30.18 N ATOM 966 CA THR A 128 33.368 46.907 -1.145 1.00 32.00 C ATOM 967 C THR A 128 33.940 45.949 -0.102 1.00 30.18 C ATOM 968 O THR A 128 34.695 46.342 0.796 1.00 30.42 O ATOM 969 CB THR A 128 34.230 46.923 -2.456 1.00 33.85 C ATOM 970 OG1 THR A 128 35.589 47.227 -2.143 1.00 39.54 O ATOM 971 CG2 THR A 128 33.702 47.974 -3.437 1.00 39.54 O ATOM 972 N LEU A 129 33.528 44.692 -0.230 1.00 26.65 N ATOM 973 CA LEU A 129 33.945 43.617 0.650 1.00 26.74 C ATOM 974 C LEU A 129 35.306 43.021 0.272 1.00 25.84 C ATOM 976 CB LEU A 129 35.778 43.179 -0.856 1.00 25.80 O ATOM 977 CG LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 977 CG LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 978 CD1 LEU A 129 31.479 42.903 1.067 1.00 27.12 C ATOM 978 CD1 LEU A 129 31.479 42.903 1.067 1.00 25.34 N ATOM 978 CD2 LEU A 129 31.479 42.903 1.067 1.00 25.34 N ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 981 CA GLU A 130 35.924 42.357 1.249 1.00 25.63 C ATOM 982 C GLU A 130 36.841 40.497 0.125 1.00 23.70 C	ATOM	962	CA	GLY	Α	127	31.955	49.902	0.632	1.00 27.05	С
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ATOM 978 CD1 LEU A 129 30.448 41.853 0.667 1.00 25.07 C ATOM 979 CD2 LEU A 129 31.487 43.123 2.568 1.00 23.65 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.34 N ATOM 981 CA GLU A 130 37.186 41.654 1.082 1.00 25.63 C ATOM 982 C GLU A 130 36.841 40.497 0.125 1.00 23.70 C	ATOM	976	CB	LEU	Α	129	32.887	42.506	0.620	1.00 24.20	С
ATOM 978 CD1 LEU A 129 30.448 41.853 0.667 1.00 25.07 C ATOM 979 CD2 LEU A 129 31.487 43.123 2.568 1.00 23.65 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.34 N ATOM 981 CA GLU A 130 37.186 41.654 1.082 1.00 25.63 C ATOM 982 C GLU A 130 36.841 40.497 0.125 1.00 23.70 C	ATOM	977	CG	LEU	А	129	31.479	42.903	1.067	1.00 27.12	С
ATOM 979 CD2 LEU A 129 31.487 43.123 2.568 1.00 23.65 C ATOM 980 N GLU A 130 35.924 42.357 1.249 1.00 25.34 N ATOM 981 CA GLU A 130 37.186 41.654 1.082 1.00 25.63 C ATOM 982 C GLU A 130 36.841 40.497 0.125 1.00 23.70 C				LEU	Α	129					
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ATOM	984	СВ	GLU	Α	130
ATOM	985	CG	GLU	Α	130
ATOM	986	CD	GLU	Α	130
ATOM	987	OE1	GLU	Α	130
ATOM	988	OE2	GLU	Α	130
ATOM	989	N	PRO	Α	131
ATOM	990	CA	PRO	Α	131
ATOM	991	С	PRO	Α	131
ATOM	992	0	PRO	Α	131
ATOM	993	СВ	PRO	Α	131
ATOM	994	CG	PRO	Α	131
ATOM	995	CD	PRO	Α	131
ATOM	996	N	THR	Α	132
ATOM	997	CA	THR	Α	132
ATOM	998	С	THR	Α	132
ATOM	999	0	THR	Α	132
ATOM	1000	СВ	THR	Α	132
ATOM	1001	OG1	THR	Α	132
ATOM	1002	CG2	THR	Α	132
ATOM	1003	N	ASN	Α	133

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ATOM	1040	CA	ALA	А	137	29.649	37.926	3.675	1.00	18.15	С
MOTA	1041	С	ALA	А	137	28.276	38.292	3.115	1.00	17.90	С
MOTA	1042	0	ALA	Α	137	27.419	38.797	3.836	1.00	19.04	0
ATOM	1043	CB	ALA	Α	137	30.647	39.024	3.351	1.00	21.17	С
MOTA	1044	N	ILE	Α	138	28.065	38.045	1.832	1.00	16.53	N
ATOM	1045	CA			138	26.783	38.365	1.219		18.71	С
MOTA	1046	С			138	25.679	37.538	1.858		18.63	С
MOTA	1047	0			138	24.589	38.045	2.111		16.14	0
MOTA	1048	CB			138	26.815	38.129	-0.302		19.32	С
MOTA	1049	CG1	ILE	Α	138	27.774	39.127	-0.954	1.00	21.58	С
MOTA	1050	CG2	ILE			25.415	38.233	-0.892	1.00	20.45	С
ATOM	1051	CD1	ILE			27.332	40.566	-0.856		23.61	С
ATOM	1052	N	ALA			25.975	36.271	2.130		17.91	N
ATOM	1053	CA	ALA			25.003	35.380	2.758		18.66	С
MOTA	1054	С	ALA			24.645	35.881	4.166		20.07	С
ATOM	1055	0			139	23.468	35.906	4.541		20.04	0
ATOM	1056	СВ	ALA			25.551	33.945	2.820		16.98	С
ATOM	1057	N	LYS			25.659	36.309	4.921		16.68	N
ATOM	1058	CA	LYS			25.456	36.809	6.280		17.51	С
ATOM	1059	С	LYS			24.615	38.089	6.304		19.38	С
ATOM	1060	0	LYS			23.726	38.243	7.143		19.61	0
ATOM	1061	СВ	LYS			26.803	37.024	6.996		17.19	С
ATOM	1062	CG	LYS			27.493	35.740	7.412		19.70	С
ATOM	1063	CD	LYS			26.552	34.948	8.311	1.00	27.77	С
ATOM	1064	CE	LYS			27.172	33.694	8.863		29.96	С
MOTA	1065	NΖ	LYS			26.335	33.184	9.977		30.18	N
ATOM	1066	Ν			141	24.914	39.012	5.395		17.86	N
ATOM	1067	CA	ILE			24.170	40.253	5.302		18.34	С
ATOM	1068	С			141	22.712	39.926	4.960		19.01	С
ATOM	1069	0	ILE			21.802	40.492	5.565		18.79	0
ATOM	1070	CB	ILE			24.803	41.203	4.253		18.17	С
ATOM	1071	CG1	ILE			26.121	41.753	4.790		15.45	С
ATOM	1072	CG2	ILE			23.860	42.351	3.906		18.08	С
ATOM	1073	CD1	ILE			26.979	42.400	3.725		15.85	C
ATOM	1074	N	ALA			22.492	38.984	4.040		15.30	N
ATOM	1075	CA	ALA			21.132	38.589	3.663		16.12	С
ATOM	1076	С	ALA			20.401	38.037	4.886		17.04	С
ATOM	1077	0	ALA			19.191	38.211	5.008		17.95	0
ATOM	1078	CB	ALA			21.157	37.544	2.558		17.22	С
ATOM	1079	N			143	21.143	37.369	5.779		17.48	N
ATOM	1080	CA			143	20.575	36.822	7.007		13.52	С
ATOM	1081	С			143	20.062	37.933	7.911		18.27	С
ATOM	1082	0			143	18.969	37.834	8.468		17.07	0
ATOM	1083	N			144	20.844	39.006	8.038		19.38	N
ATOM	1084	CA			144	20.464	40.155	8.856		19.31	С
ATOM	1085	С			144	19.228	40.834	8.268		18.59	С
ATOM	1086	O			144	18.310	41.191	8.999		21.56	0
MOTA	1087 1088	CB CG1	ILE		144	21.603 22.803	41.221 40.673	8.944 9.720		17.98	C
ATOM	1089		ILE			21.099		9.720		13.98 14.21	C
MOTA		CG2					42.500				C
ATOM	1090 1091	CD1	ILE LYS			24.023 19.200	41.565 40.995	9.603 6.950		13.94 17.01	N
ATOM ATOM	1091	N CA			145	18.080	40.995	6.289		16.57	C
ATOM	1092	CA			145	16.794	40.829	6.317		16.80	C
ATOM	1093	0	LYS			15.699	41.378	6.223		18.88	0
ATOM	1094	CB			145	18.468	42.065	4.868		16.04	C
111 01.1	1000	CD		77	T-10	±0.±00	12.003	±.000	±•00	±0.0±	C

ATOM	1096	CG	LYS	Α	145	19.620	43.051	4.839	1.00	14.82	С
ATOM	1097	CD	LYS	Α	145	19.300	44.276	5.665	1.00	16.49	С
ATOM	1098	CE			145	20.464	45.240	5.783		14.44	C
ATOM	1099	NZ	LYS			20.071	46.371	6.669		16.91	N
ATOM	1100	N	LEU			16.925	39.512	6.411		17.72	N
ATOM	1101	CA	LEU			15.762	38.637	6.515		18.09	С
ATOM	1102	С	LEU			15.130	38.935	7.873		18.98	С
ATOM	1103	0	LEU	Α	146	13.930	39.152	7.973	1.00	20.75	0
ATOM	1104	CB	LEU	Α	146	16.179	37.170	6.463	1.00	16.75	С
ATOM	1105	CG	LEU	Α	146	16.263	36.496	5.099	1.00	18.85	С
ATOM	1106	CD1	LEU	Α	146	17.003	35.178	5.235	1.00	18.16	С
ATOM	1107	CD2	LEU			14.871	36.267	4.552		17.81	С
ATOM	1108	N			147	15.963	38.966	8.911	1.00	18.95	И
ATOM	1109	CA			147	15.510	39.252	10.269		19.17	C
ATOM	1110	C			147	14.762	40.578	10.336		17.87	C
ATOM	1111	0	CYS			13.644	40.637	10.848	1.00		0
ATOM	1112	CB	CYS			16.699	39.293	11.248		19.14	C
ATOM	1113	SG	CYS			17.415	37.689	11.667	1.00	20.97	S
ATOM	1114	Ν			148	15.384	41.635	9.816		17.99	N
MOTA	1115	CA	GLU	Α	148	14.794	42.979	9.816	1.00	18.37	С
ATOM	1116	С	GLU	Α	148	13.474	43.010	9.050	1.00	17.39	С
ATOM	1117	0	GLU	Α	148	12.510	43.602	9.507	1.00	21.13	0
ATOM	1118	CB	GLU	Α	148	15.788	44.017	9.250	1.00	14.57	С
ATOM	1119	CG	GLU	Α	148	17.070	44.148	10.092	1.00	13.52	С
ATOM	1120	CD			148	18.106	45.127	9.551	1.00	14.62	С
ATOM	1121	OE1	GLU			18.015	45.579	8.389	1.00	16.51	0
ATOM	1122	OE2	GLU			19.031	45.456	10.319	1.00	20.79	0
ATOM	1123	N			149	13.422	42.299	7.929		19.34	N
ATOM	1124	CA			149	12.227	42.243	7.090		19.00	C
ATOM	1125	С			149	11.059	41.528	7.765		19.17	C
ATOM	1126	0			149	9.914	41.917	7.558		18.26	0
ATOM	1127	CB			149	12.551	41.604	5.734		17.15	С
ATOM	1128	OG			149	13.489	42.402	5.024		14.19	0
ATOM	1129	N	TYR	А	150	11.345	40.481	8.549	1.00	19.29	N
ATOM	1130	CA	TYR	Α	150	10.304	39.746	9.274	1.00	17.60	С
ATOM	1131	С	TYR	Α	150	9.865	40.564	10.475	1.00	18.45	С
ATOM	1132	0	TYR	Α	150	8.710	40.489	10.876	1.00	20.88	0
ATOM	1133	СВ	TYR	Α	150	10.767	38.347	9.708	1.00	15.76	С
ATOM	1134	CG			150	10.648	37.310	8.606		17.89	С
ATOM	1135	CD1	TYR			11.600	37.234	7.580		18.65	C
ATOM	1136		TYR			9.545	36.460	8.537		20.61	C
ATOM	1137		TYR			11.450	36.344	6.511		17.41	C
	1138		TYR			9.388	35.556	7.465		19.44	C
ATOM											
ATOM	1139	CZ			150	10.339	35.512	6.462		19.61	C
ATOM	1140	ОН			150	10.180	34.651	5.402		20.59	0
MOTA	1141	Ν	ASN			10.786	41.341	11.042		16.10	N
ATOM	1142	CA	ASN			10.461	42.208	12.170		19.90	С
ATOM	1143	С	ASN	Α	151	9.515	43.315	11.699	1.00	19.24	С
ATOM	1144	0	ASN	Α	151	8.536	43.627	12.364	1.00	21.47	0
ATOM	1145	CB	ASN	Α	151	11.710	42.865	12.753	1.00	16.62	С
ATOM	1146	CG	ASN			12.620	41.889	13.469		18.87	C
ATOM	1147		ASN			13.751	42.235	13.788		28.21	0
ATOM	1148		ASN			12.150	40.681	13.716		14.64	N
ATOM	1149	N	ARG			9.850	43.932	10.568		22.05	N
ATOM	1150	CA	ARG			9.044	44.999	9.978		21.37	C
ATOM	1151	CA				7.664	44.514	9.510		21.48	C
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ATOM	1152	0	ARG	Α	152	6.641	45.029	9.957	1.00 2	2.70	0
ATOM	1153	СВ			152	9.802	45.651	8.814	1.00 1		С
ATOM	1154	CG	ARG	Α	152	10.973	46.514	9.264	1.00 1	6.68	С
ATOM	1155	CD	ARG	Α	152	11.790	47.030	8.091	1.00 1	6.80	С
ATOM	1156	NE	ARG			11.055	48.004	7.295		0.16	N
ATOM	1157	CZ	ARG			11.068	48.060	5.966		3.08	С
ATOM	1158	NH1	ARG			11.778	47.189	5.257		5.34	N
ATOM	1159		ARG			10.391	49.013	5.335	1.00 2		N
ATOM	1160	N			153	7.638	43.485	8.666	1.00 2		N
ATOM	1161	CA			153	6.383	42.960	8.138		0.79	С
ATOM	1162	С			153	5.502	42.227	9.132		0.73	C
ATOM	1163	0			153	4.328	42.525	9.233		1.63	0
ATOM	1164	СВ			153	6.620	42.039	6.931		6.56	C
ATOM	1165	CG			153	5.316	41.569	6.258		6.97	C
ATOM	1166	CD			153	5.518	40.772	4.962		6.59	C
ATOM	1167	OE1	GLN			4.642	40.017	4.543	1.00 2		0
ATOM	1168	NE2			153	6.653	40.948	4.327		0.42	N
ATOM	1169	N			154	6.066	41.286	9.879		1.85	N
ATOM	1170	CA			154	5.267	40.475	10.793		1.16	C
ATOM	1171	C			154	5.318	40.813	12.271		0.36	C
ATOM	1172	0			154	4.645	40.172	13.075		3.44	0
ATOM	1173	СВ			154	5.588	38.986	10.572		9.13	C
ATOM	1174	CG			154	5.303	38.492	9.152		7.03	C
ATOM	1175	CD1			154	3.983	38.330	8.693		4.58	C
ATOM	1176	CD2	TYR			6.344	38.185	8.266	1.00 2		C
ATOM	1177	CE1	TYR			3.710	37.880	7.398	1.00 2		C
ATOM	1178	CE2	TYR			6.075	37.727	6.963	1.00 2		C
ATOM	1179	CZ			154	4.755	37.727	6.538		7.11	C
ATOM	1180	OH	TYR			4.475	37.170	5.248		9.14	0
	1181				155		41.833	12.630		8.48	
ATOM		N				6.080	42.205	14.025		1.43	N C
ATOM	1182	CA C			155	6.179				2.37	
ATOM	1183				155	6.946	41.180	14.831			С
ATOM	1184	0			155	6.659	40.971	16.003		5.67	0
ATOM	1185	N	ARG			7.909	40.518	14.198		3.34	N
ATOM	1186	CA	ARG			8.737	39.527	14.884	1.00 2		C
ATOM	1187	С			156	9.835	40.187	15.741		0.20	C
ATOM	1188	0 CB	ARG			10.028	41.406	15.707		8.48	0
ATOM	1189	CB	ARG		156	9.367	38.579	13.870		8.88	С
ATOM	1190	CG	_			8.384	37.648	13.212		8.28	С
ATOM	1191	CD	ARG			7.802	36.741	14.247	1.00 2		C
ATOM	1192	NE	ARG			6.837	35.804	13.689	1.00 2		N
ATOM	1193	CZ			156	5.832	35.262	14.378	1.00 2		C
ATOM	1194		ARG			5.643	35.574	15.653	1.00 2		N
ATOM	1195		ARG			5.054	34.350	13.815	1.00 2		N
ATOM	1196	N			157	10.549	39.361	16.500	1.00 1		N
ATOM	1197	CA			157	11.622	39.826	17.370	1.00 2		С
ATOM	1198	С			157	12.884	39.013	17.031	1.00 2		С
ATOM	1199	0			157	13.377	38.214	17.840	1.00 2		0
ATOM	1200	CB			157	11.212	39.633	18.839	1.00 2		С
ATOM	1201	CG			157	12.189	40.262	19.817	1.00 2		С
ATOM	1202		ASP			13.061	41.054	19.405	1.00 2		0
ATOM	1203		ASP			12.087	39.960	21.017	1.00 2		0
ATOM	1204	N			158	13.369	39.207	15.805	1.00 2		N
ATOM	1205	CA			158	14.545	38.518	15.297	1.00 1		С
ATOM	1206	С			158	15.749	39.435	15.379	1.00 1		С
ATOM	1207	0	TYR	А	158	15.909	40.354	14.581	1.00 1	8.27	0

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1208 CB TYR A 158 14.293 38.064 13.865 1.00 18.34 13.192 37.029 13.741 1.00 18.16 12.571 36.495 14.879 1.00 20.51 12.777 36.575 12.491 1.00 17.28 31.157 37.497 16.849 1.00 23.11 1252 CB PRO A 163 31.157 37.497 16.849 1.00 23.11 1253 CG PRO A 163 29.867 36.956 16.205 1.00 33.13 1254 CD PRO A 163 29.534 37.925 15.134 1.00 27.16 1255 N THR A 164 33.444 39.797 16.575 1.00 25.26 1256 CA THR A 164 34.762 40.127 16.016 1.00 25.72 1257 C THR A 164 35.474 38.758 15.893 1.00 25.86 1258 O THR A 164 34.796 37.724 15.929 1.00 24.09 1259 CB THR A 164 35.548 41.076 16.981 1.00 24.48 1260 OG1 THR A 164 36.831 41.386 16.426 1.00 22.96 1261 CG2 THR A 164 35.712 40.450 18.370 1.00 14.06 1262 N ASN A 165 36.805 38.730 15.750 1.00 22.75 1263 CA ASN A 165 37.523 37.451 15.664 1.00 20.46

MOTA

ATOM

ATOM

ATOM	1264	С	ASN	Α	165	37.327	36.664	16.955	1.00	20.50	С
ATOM	1265	0	ASN	Α	165	37.514	37.187	18.044	1.00	22.04	0
MOTA	1266	СВ	ASN	А	165	39.013	37.668	15.449	1.00	21.07	С
MOTA	1267	CG	ASN	Α	165	39.303	38.416	14.184	1.00	27.32	С
ATOM	1268	OD1	ASN			38.911	37.989	13.096		30.55	0
ATOM	1269	ND2	ASN			39.981	39.557	14.310		28.79	N
ATOM	1270	N	LEU	А	166	36.944	35.403	16.821		21.91	N
MOTA	1271	CA	LEU			36.702	34.551	17.970		23.81	С
MOTA	1272	С	LEU			37.755	33.489	18.125		24.20	С
ATOM	1273	0	LEU	Α	166	38.439	33.136	17.177	1.00	26.50	0
MOTA	1274	СВ	LEU			35.361	33.835	17.822		22.98	С
MOTA	1275	CG	LEU			34.096	34.668	17.686		23.88	С
ATOM	1276	CD1	LEU			32.922	33.721	17.592		21.80	С
ATOM	1277	CD2	LEU			33.944	35.613	18.871		19.47	С
MOTA	1278	N	TYR			37.835	32.938	19.326		23.82	N
ATOM	1279	CA	TYR			38.766	31.861	19.599		23.16	С
MOTA	1280	С	TYR			38.276	31.157	20.854		22.14	С
ATOM	1281	0	TYR			37.419	31.673	21.567		20.63	0
ATOM	1282	СВ	TYR			40.196	32.399	19.786	1.00	21.91	С
ATOM	1283	CG	TYR			40.425	33.155	21.083		22.67	С
ATOM	1284	CD1	TYR			40.060	34.499	21.212		21.12	С
ATOM	1285	CD2	TYR			41.018	32.520	22.184		21.84	С
ATOM	1286	CE1	TYR			40.283	35.191	22.411		23.41	С
ATOM	1287	CE2	TYR			41.241	33.197	23.377		20.48	С
ATOM	1288	CZ	TYR			40.874	34.527	23.484		23.13	С
ATOM	1289	ОН	TYR		167	41.106	35.188	24.664		26.17	0
ATOM	1290	N	GLY			38.809	29.973	21.116		22.51	N
ATOM	1291	CA	GLY			38.413	29.246	22.304			С
ATOM	1292	С	GLY			38.288	27.768	22.015		23.94	С
ATOM	1293	0	GLY			38.749	27.301	20.973		21.69	0
ATOM	1294	N	PRO			37.722	26.993	22.952		25.73	N
ATOM	1295	CA	PRO			37.561	25.553	22.735		27.29	С
ATOM	1296	С	PRO			36.636	25.235	21.558	1.00	30.16	С
ATOM	1297	0	PRO			35.716	25.998	21.248		30.60	0
ATOM	1298	CB	PRO			36.981	25.068	24.066	1.00	28.91	С
ATOM	1299	CG	PRO			36.396	26.302	24.692	1.00	28.86	С
ATOM ATOM	1300 1301	CD	PRO HIS			37.386 36.908	27.358 24.111	24.338 20.900		24.95	C
ATOM	1301	N CA	HIS			36.132	23.635	19.757		33.27	N C
											C
ATOM ATOM	1303 1304	C 0	HIS HIS			36.394 35.670	24.372 24.213	18.483 17.500		32.50 35.70	0
ATOM	1305	CB	HIS			34.637	23.568	20.064		32.59	C
ATOM	1306	CG	HIS			34.321	22.575	21.126		37.11	C
ATOM	1307		HIS			34.210	21.224	20.857		38.96	N
ATOM	1308		HIS			34.225	22.700	22.469		39.73	C
ATOM	1309		HIS			34.072	20.567	22.002		41.36	C
ATOM	1310		HIS			34.079	21.446	22.990		38.88	N
ATOM	1311	N	ASP			37.451	25.170	18.497		32.94	N
ATOM	1312	CA	ASP			37.851	25.904	17.315		32.31	C
ATOM	1313	C	ASP			38.518	24.853	16.432		34.67	C
ATOM	1314	0	ASP			38.732	23.705	16.848		34.74	0
ATOM	1315	CB	ASP			38.853	27.007	17.685		29.11	C
ATOM	1316	CG	ASP			38.975	28.090	16.620		27.98	C
ATOM	1317		ASP			38.573	27.891	15.452		31.30	Ö
ATOM	1318		ASP			39.490	29.171	16.964		31.79	0
ATOM	1319	N			172	38.820	25.250	15.208		37.54	N
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ATOM	1320	CA	ASN	Α	172	39.464	24.382	14.248	1.00	40.57	С
MOTA	1321	С	ASN	А	172	40.982	24.489	14.422	1.00	43.13	С
MOTA	1322	0	ASN	Α	172	41.615	25.403	13.886	1.00	43.13	0
MOTA	1323	СВ	ASN	А	172	39.042	24.820	12.848	1.00	42.69	С
ATOM	1324	CG	ASN	А	172	39.710	24.021	11.753		45.60	С
ATOM	1325	OD1	ASN	Α	172	40.460	23.074	12.015	1.00	45.68	0
MOTA	1326	ND2	ASN			39.448	24.411	10.506		45.39	N
MOTA	1327	N	PHE	А	173	41.561	23.570	15.191	1.00	45.69	N
MOTA	1328	CA	PHE			43.002	23.585	15.424		48.04	С
ATOM	1329	С	PHE	Α	173	43.803	22.842	14.374	1.00	54.64	С
MOTA	1330	0	PHE	Α	173	45.030	22.801	14.450		55.57	0
ATOM	1331	СВ	PHE			43.339	23.069	16.814		39.40	С
ATOM	1332	CG	PHE			43.021	24.043	17.896		38.63	С
ATOM	1333	CD1	PHE			41.758	24.070	18.475		37.90	С
ATOM	1334	CD2	PHE			43.975	24.958	18.321		35.44	С
ATOM	1335	CE1	PHE			41.448	24.993	19.461		35.31	С
ATOM	1336		PHE			43.672	25.882	19.302		34.35	С
ATOM	1337	CZ	PHE			42.406	25.900	19.873		34.16	С
ATOM	1338	Ν	HIS			43.104	22.285	13.383	1.00	62.23	N
ATOM	1339	CA	HIS			43.740	21.559	12.285	1.00	65.73	С
ATOM	1340	С	HIS			44.747	22.495	11.603		69.87	С
ATOM	1341	0	HIS			44.625	23.728	11.678	1.00	68.58	0
ATOM	1342	СВ	HIS			42.681	21.063	11.279	1.00	61.11	С
ATOM	1343	N	PRO			45.791	21.916	10.981		74.50	N
ATOM	1344	CA	PRO			46.850	22.655	10.279		74.82	С
ATOM	1345	С	PRO			46.325	23.481	9.111	1.00	75.18	С
ATOM	1346	0	PRO			46.947	24.460	8.696		77.75	0
ATOM	1347	CB	PRO			47.769	21.537	9.789	1.00	77.12	С
ATOM	1348	CG	PRO			46.817	20.367	9.608		78.25	С
ATOM	1349	CD	PRO			46.010	20.460	10.870		75.04	С
ATOM	1350	N	SER			45.165	23.084	8.604		75.10	N
ATOM	1351	CA	SER			44.527	23.751	7.479		75.72	С
ATOM	1352	С	SER			43.883	25.104	7.842		75.78	С
ATOM	1353	0	SER			43.696	25.953	6.959		75.47	0
ATOM	1354	CB	SER			43.469	22.823	6.879	1.00	76.11	С
ATOM	1355	OG	SER			43.936	21.484	6.842	1.00	77.64	0
ATOM ATOM	1356 1357	N	ASN ASN			43.551 42.909	25.302 26.544	9.125 9.580	1.00	69.12	N
ATOM	1358	CA C	ASN			43.813	27.764	9.532		65.94	C
ATOM											0
	1359 1360	O CB	ASN			44.891 42.336	27.780 26.406	10.144 10.997		65.45 71.16	C
ATOM ATOM	1361	СБ	ASN ASN			41.472	27.609	11.401		71.66	C
ATOM	1362		ASN			41.049		10.548		73.31	0
ATOM	1363		ASN			41.199		12.697		67.25	N
ATOM	1364	N			178	43.317	28.806	8.860		61.37	N
ATOM	1365	CA	SER			44.045	30.061	8.684		56.06	C
ATOM	1366	C	SER			43.887	31.098	9.808		54.27	C
ATOM	1367	0			178	44.649	32.072	9.848		55.12	0
ATOM	1368	СВ	SER			43.701	30.703	7.326		52.63	C
ATOM	1369	OG	SER			42.422	31.308	7.338		46.99	0
ATOM	1370	N	HIS			42.913	30.911	10.705		48.10	N
ATOM	1371	CA	HIS			42.720	31.868	11.795		42.80	C
ATOM	1372	C	HIS			43.964	31.900	12.674		37.82	C
ATOM	1373	0	HIS			44.507	30.866	13.073		33.48	0
ATOM	1374	CB			179	41.422		12.559		46.48	C
ATOM	1375	CG	HIS			40.199		11.712		51.98	C
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ATOM	1376	ND1	HIS	Α	179	3	39.234	30.797	11.577	1.00	57.89	N
ATOM	1377	CD2	HIS	Α	179	3	39.838	32.774	10.873	1.00	52.35	С
ATOM	1378	CE1	HIS	Α	179	3	38.342	31.186	10.682	1.00	56.31	С
ATOM	1379	NE2	HIS	Α	179	3	38.686	32.383	10.240	1.00	52.76	N
MOTA	1380	N	VAL				14.470	33.112	12.852	1.00	32.00	N
ATOM	1381	CA	VAL			4	15.691	33.368	13.579	1.00	32.18	С
ATOM	1382	С	VAL				15.869	32.723	14.958		28.84	С
MOTA	1383	0	VAL				16.915	32.122	15.208	1.00	30.55	0
ATOM	1384	СВ	VAL			4	16.007	34.898	13.586	1.00	33.53	С
ATOM	1385	CG1	VAL	Α	180	4	15.111	35.639	14.548	1.00	30.46	С
ATOM	1386	CG2	VAL				17.468	35.139	13.893	1.00	37.25	С
ATOM	1387	N	ILE				14.870	32.800	15.836		25.22	N
ATOM	1388	CA	ILE				15.022	32.200	17.165		23.61	С
MOTA	1389	С	ILE				15.219	30.666	17.161		24.19	С
ATOM	1390	0	ILE				16.229	30.181	17.668		23.46	0
ATOM	1391	СВ	ILE				13.935	32.682	18.146		19.90	С
ATOM	1392	CG1	ILE				14.168	34.165	18.440	1.00	19.23	С
ATOM	1393	CG2	ILE				13.969	31.876	19.445	1.00	17.91	С
ATOM	1394	CD1	ILE				43.142	34.791	19.337	1.00	20.39	С
ATOM	1395	N	PRO				14.275	29.888	16.592		22.56	N
ATOM	1396	CA	PRO				14.485	28.435	16.583		22.55	С
ATOM	1397	С	PRO				15.710	28.011	15.767		23.61	C
ATOM	1398	0	PRO				16.362	27.020	16.100		22.98	0
ATOM	1399	СВ	PRO				13.182	27.894	15.983	1.00	21.26	С
ATOM	1400	CG	PRO				12.619	29.051	15.235	1.00		С
ATOM	1401	CD	PRO				12.908	30.206	16.149	1.00	24.10	C
ATOM	1402	N	ALA				16.021	28.760	14.708	1.00	21.58	N
ATOM	1403	CA	ALA				17.184	28.462	13.872	1.00		C
ATOM	1404	С	ALA				18.470	28.681	14.667		25.64	С
ATOM	1405	0	ALA				19.384	27.850	14.630		27.30	0
ATOM	1406	CB	ALA				17.196	29.335	12.620		24.35	С
ATOM	1407	N	LEU				18.551	29.809	15.368	1.00		N
ATOM	1408	CA	LEU				19.734	30.101	16.167	1.00	25.37	С
ATOM	1409	С	LEU				19.852	29.214	17.415	1.00		С
MOTA	1410	0	LEU				50.960	28.834	17.792	1.00	27.56	0
MOTA	1411	CB	LEU				19.810	31.585 32.511	16.528	1.00	22.23 25.96	С
ATOM ATOM	1412 1413	CG	LEU LEU				50.182 50.392	33.928	15.363 15.884	1.00	20.43	С
ATOM	1414	CD1	LEU				51.446	31.999	14.655		19.43	C
ATOM			LEU									N
	1415 1416	N CA			185		18.733 18.795	28.883 28.014	18.060 19.240		25.29 24.39	C
ATOM ATOM	1417	CA			185		19.412	26.691	18.848		24.56	C
ATOM	1418	0			185		50.254	26.164	19.557		27.60	0
ATOM	1419	CB			185		17.411	27.760	19.836		22.89	C
ATOM	1420	CG			185		16.995	28.738	20.934		27.62	C
ATOM	1421	CD1					15.544	28.477	21.328		27.37	C
ATOM	1422		LEU				17.921	28.612	22.142		22.78	C
ATOM	1423	N			186		19.017	26.194	17.684		25.56	N
ATOM	1424	CA			186		19.501	24.931	17.150		27.87	C
ATOM	1425	C			186		50.987	24.980	16.791		26.21	C
ATOM	1426	0			186		51.745	24.083	17.139		26.14	0
ATOM	1427	CB			186		18.683	24.580	15.911		32.73	C
ATOM	1428	CG			186		18.985	23.234	15.310		44.90	C
ATOM	1429	CD			186		18.384	22.122	16.156		57.26	C
ATOM	1430	NE			186		18.617	20.808	15.556		65.19	И
ATOM	1431	CZ			186		17.742	20.151	14.798		68.62	C
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ATOM	1432	NH1	ARG	Α	186	46.548	20.668	14.537	1.00	72.49	N
ATOM	1433	NH2	ARG			48.078	18.985	14.266		73.83	N
ATOM	1434	N	ARG			51.394	26.026	16.081		24.48	N
ATOM	1435	CA	ARG			52.782	26.182	15.669		24.74	C
ATOM	1436	С	ARG			53.732	26.364	16.846		24.74	С
ATOM	1437	0	ARG			54.818	25.788	16.856		26.24	0
MOTA	1438	CB	ARG			52.929	27.358	14.710		23.68	С
MOTA	1439	CG	ARG	Α	187	52.119	27.208	13.449	1.00	31.34	С
ATOM	1440	CD	ARG	А	187	52.396	28.351	12.507	1.00	34.19	С
ATOM	1441	NE	ARG	Α	187	53.818	28.415	12.179	1.00	36.53	N
ATOM	1442	CZ	ARG	Α	187	54.424	29.479	11.666	1.00	34.23	С
ATOM	1443	NH1	ARG	Α	187	53.731	30.590	11.417	1.00	32.29	N
ATOM	1444	NH2	ARG			55.722	29.418	11.390		33.65	И
ATOM	1445	N	PHE			53.341	27.180	17.819		21.57	N
ATOM	1446	CA	PHE			54.192	27.400	18.983	1.00	24.91	C
ATOM	1447	C	PHE			54.297	26.157	19.833		24.73	C
ATOM	1448	0	PHE			55.337	25.904	20.420	1.00	26.48	0
ATOM	1449	CB	PHE			53.725	28.604	19.806	1.00		С
ATOM	1450	CG	PHE			54.212	29.911	19.256		26.26	C
ATOM	1451		PHE			55.574	30.193	19.230		26.59	С
MOTA	1452		PHE			53.327	30.822	18.680		27.23	С
ATOM	1453		PHE			56.060	31.364	18.629	1.00	30.17	С
ATOM	1454	CE2	PHE	Α	188	53.797	31.998	18.074	1.00	27.73	С
MOTA	1455	CZ	PHE	Α	188	55.168	32.265	18.045	1.00	28.16	С
ATOM	1456	N	HIS	Α	189	53.228	25.364	19.858	1.00	27.07	N
ATOM	1457	CA	HIS	Α	189	53.192	24.115	20.617	1.00	28.53	С
ATOM	1458	С	HIS			54.220	23.126	20.048	1.00	27.95	С
ATOM	1459	0	HIS			55.014	22.535	20.783	1.00		0
ATOM	1460	СВ	HIS			51.786	23.497	20.551		28.59	C
ATOM	1461	CG	HIS			51.704	22.119	21.129		32.18	C
ATOM	1462	ND1	HIS			51.693	21.881	22.486		30.13	N
ATOM	1463		HIS			51.678	20.902	20.530		29.12	С
ATOM	1464	CE1	HIS			51.672	20.577	22.699		30.17	C
ATOM	1465		HIS			51.662	19.960	21.530		29.70	N
ATOM	1466	Ν	GLU			54.183	22.946	18.734	1.00		N
MOTA	1467	CA	GLU			55.100	22.040	18.074	1.00		С
ATOM	1468	С	GLU			56.533	22.531	18.072		30.02	С
ATOM	1469	0	GLU	Α	190	57.458	21.740	18.253	1.00	31.74	0
ATOM	1470	CB	GLU	Α	190	54.614	21.737	16.678	1.00	33.57	С
ATOM	1471	CG	GLU	Α	190	53.620	20.605	16.707	1.00	50.97	С
MOTA	1472	CD	GLU	Α	190	52.554	20.755	15.660	1.00	61.60	С
ATOM	1473	OE1	GLU	А	190	52.889	20.759	14.449	1.00	68.67	0
MOTA	1474	OE2	GLU	Α	190	51.373	20.868	16.049	1.00	67.78	0
ATOM	1475	N	ALA			56.719	23.837	17.903		29.25	N
ATOM	1476	CA	ALA			58.047	24.431	17.926		25.71	С
ATOM	1477	C	ALA			58.652	24.229	19.322		24.60	C
ATOM	1478	0	ALA			59.846	23.982	19.443		26.03	0
ATOM	1479	СВ	ALA			57.970	25.920	17.588		21.99	C
		И			192			20.360		23.89	
ATOM	1480					57.817	24.306				N
ATOM	1481	CA			192	58.258	24.127	21.746		25.70	С
ATOM	1482	С			192	58.635	22.665	21.980		30.82	C
MOTA	1483	0			192	59.683	22.368	22.566		34.40	0
ATOM	1484	СВ			192	57.151	24.524	22.743		24.15	С
MOTA	1485	OG1	THR			56.814	25.908	22.567		26.94	0
ATOM	1486	CG2	THR			57.617	24.315	24.168		18.91	С
ATOM	1487	N	ALA	А	193	57.787	21.765	21.482	1.00	33.20	N

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ATOM	1488	CA	ALA A 193	57.982	20.322	21.595	1.00 35.47	С
ATOM	1489	C	ALA A 193	59.223	19.847	20.832	1.00 38.19	C
ATOM	1490	0	ALA A 193	59.937	18.960	21.292	1.00 41.62	0
	1491	СВ		56.743				C
ATOM			ALA A 193		19.598	21.075	1.00 32.40	
ATOM	1492	N	GLN A 194	59.461	20.430	19.656	1.00 39.55	N
ATOM	1493	CA	GLN A 194	60.603	20.074	18.813	1.00 39.78	С
ATOM	1494	С	GLN A 194	61.828	20.907	19.163	1.00 40.87	С
ATOM	1495	0	GLN A 194	62.896	20.736	18.575	1.00 43.65	0
ATOM	1496	СВ	GLN A 194	60.245	20.249	17.333	1.00 44.89	С
MOTA	1497	CG	GLN A 194	59.170	19.265	16.838	1.00 55.10	С
MOTA	1498	CD	GLN A 194	58.401	19.744	15.598	1.00 62.27	С
ATOM	1499	OE1	GLN A 194	57.292	19.257	15.317	1.00 63.37	0
ATOM	1500	NE2	GLN A 194	58.977	20.703	14.862	1.00 61.98	N
ATOM	1501	N	ASN A 195	61.674	21.808	20.124	1.00 40.88	N
ATOM	1502	CA	ASN A 195	62.755	22.674	20.569	1.00 43.91	С
ATOM	1503	С	ASN A 195	63.405	23.503	19.437	1.00 41.72	С
ATOM	1504	0	ASN A 195	64.623	23.734	19.436	1.00 38.80	0
ATOM	1505	СВ	ASN A 195	63.810	21.846	21.305	1.00 53.95	С
ATOM	1506	CG	ASN A 195	64.498	22.637	22.397	1.00 65.59	С
ATOM	1507	OD1	ASN A 195	65.700	22.505	22.605	1.00 75.35	0
ATOM	1508	ND2	ASN A 195	63.732	23.480	23.099	1.00 69.22	N
ATOM	1509	N	ALA A 196	62.567	23.970	18.503	1.00 36.58	N
ATOM	1510	CA	ALA A 196	62.998	24.777	17.360	1.00 30.15	С
ATOM	1511	С	ALA A 196	63.588	26.109	17.808	1.00 30.83	C
ATOM	1512	0	ALA A 196	63.037	26.791	18.662	1.00 29.22	0
ATOM	1513	СВ	ALA A 196	61.828	25.013	16.427	1.00 28.38	C
ATOM	1514	N	PRO A 197	64.729	26.502	17.219	1.00 31.98	N
ATOM	1515	CA	PRO A 197	65.391	27.763	17.579	1.00 28.21	C
ATOM	1516	С	PRO A 197	64.508	29.006	17.366	1.00 28.67	C
ATOM	1517	0	PRO A 197	64.549	29.941	18.173	1.00 24.78	0
ATOM	1518	СВ	PRO A 197	66.628	27.759	16.676	1.00 28.56	C
ATOM	1519	CG	PRO A 197	66.181	26.954	15.491	1.00 33.08	C
ATOM	1520	CD	PRO A 197	65.424	25.829	16.107	1.00 28.22	C
ATOM	1521	N	ASP A 198	63.692	28.998	16.314	1.00 27.04	N
ATOM	1522	CA	ASP A 198	62.799	30.124	16.034	1.00 28.66	C
ATOM	1523	C	ASP A 198	61.508	29.756	15.298	1.00 27.01	C
ATOM	1524	0	ASP A 198	61.358	28.650	14.775	1.00 23.15	0
ATOM	1525	СВ	ASP A 198	63.540	31.220	15.257	1.00 32.19	C
ATOM	1526	CG	ASP A 198	64.078	30.743	13.912	1.00 37.91	C
ATOM	1527		ASP A 198	63.888	29.568	13.526	1.00 44.89	0
ATOM	1528		ASP A 198	64.702	31.562	13.220	1.00 47.35	0
ATOM	1529	N	VAL A 199	60.577	30.705	15.278	1.00 26.34	N
ATOM	1530	CA	VAL A 199	59.299	30.705	14.591	1.00 24.87	C
ATOM	1531	C	VAL A 199	59.132	31.810	13.769	1.00 23.03	C
ATOM	1531	0	VAL A 199	59.094	32.911	14.317	1.00 23.03	0
	1532	CB	VAL A 199	58.109	30.426	15.564	1.00 26.68	C
MOTA	1534			56.801	30.425	14.776	1.00 24.34	
ATOM	1535		VAL A 199	58.221	29.156	16.378	1.00 24.54	C
ATOM ATOM	1536		VAL A 199 VAL A 200	59.092	31.649			
		N				12.454	1.00 21.37	N
MOTA	1537	CA	VAL A 200	58.958	32.780	11.557	1.00 21.47	С
ATOM	1538	С	VAL A 200	57.507	33.012	11.186	1.00 21.22	C
ATOM	1539	0	VAL A 200	56.815	32.093	10.766	1.00 23.29	0
ATOM	1540	CB	VAL A 200	59.807	32.587	10.275	1.00 22.51	С
ATOM	1541		VAL A 200	59.643	33.784	9.332	1.00 20.18	С
ATOM	1542		VAL A 200	61.281	32.383	10.648	1.00 17.80	C
ATOM	1543	Ν	VAL A 201	57.045	34.240	11.394	1.00 21.11	N

ATOM	1544	CA	VAL	Α	201	55.684	34.640	11.077	1.00	18.06	С
MOTA	1545	С	VAL	Α	201	55.781	35.669	9.958	1.00	19.48	С
MOTA	1546	0	VAL	Α	201	56.614	36.561	10.020	1.00	21.36	0
MOTA	1547	CB	VAL	Α	201	55.016	35.282	12.293	1.00	20.82	С
ATOM	1548	CG1	VAL	Α	201	53.594	35.697	11.943	1.00	23.30	С
ATOM	1549	CG2				55.004	34.292	13.460	1.00	18.66	С
ATOM	1550	N			202	54.956	35.522	8.925		18.77	N
MOTA	1551	CA	TRP			54.955	36.441	7.786		19.76	С
MOTA	1552	С	TRP			54.423	37.805	8.191	1.00	21.33	С
ATOM	1553	0	TRP			53.460	37.890	8.950	1.00	24.35	0
MOTA	1554	CB	TRP			54.042	35.925	6.675	1.00	20.53	С
MOTA	1555	CG			202	54.400	34.619	6.028		20.53	С
ATOM	1556	CD1			202	53.528	33.768	5.418		19.71	С
ATOM	1557	CD2			202	55.710	34.062	5.823		23.30	С
MOTA	1558	NE1			202	54.203	32.731	4.830		23.83	N
ATOM	1559	CE2			202	55.547	32.880	5.059		23.25	С
ATOM	1560	CE3	TRP			57.009	34.448	6.198		26.18	С
ATOM	1561	CZ2			202	56.626	32.079	4.656		19.84	С
ATOM	1562	CZ3	TRP			58.089	33.647	5.796	1.00	27.43	С
ATOM	1563	CH2			202	57.885	32.479	5.031		23.13	С
ATOM	1564	N			203	55.017	38.864	7.651		19.73	N
ATOM	1565	CA			203	54.554	40.202	7.963		19.65	С
ATOM	1566	С			203	55.458	40.919	8.940		22.07	С
ATOM	1567	0	GLY			56.448	40.357	9.390	1.00	20.84	0
ATOM	1568	N	SER			55.088	42.147	9.294		20.09	N
ATOM	1569	CA	SER			55.868	42.972	10.205		19.23	С
ATOM	1570	С			204	55.434	42.868	11.663		18.99	С
ATOM	1571	0	SER			56.162	43.297	12.560		19.85	0
ATOM	1572	CB	SER			55.772	44.431	9.770		19.16	С
ATOM	1573	OG	SER			54.479	44.947	10.046		21.60	0
ATOM	1574	N	GLY			54.242	42.320	11.891		19.27	N
ATOM	1575	CA	GLY			53.705	42.179	13.237		17.20	С
ATOM	1576	С	GLY			53.020	43.443	13.753		19.03	С
ATOM	1577	0	GLY			52.455	43.447	14.848		18.09	0
ATOM	1578	N	THR			53.058	44.514	12.959		18.28	И
ATOM	1579	CA C	THR THR			52.452	45.781	13.350	1.00	18.39	С
ATOM ATOM	1580 1581				206	50.935	45.904 46.707	13.203 13.904		18.82 21.01	С
ATOM	1582	O CB			206	53.092	46.707	12.620		16.36	O C
ATOM											0
	1583 1584	OG1 CG2	THR THR			52.863 54.577	46.894 47.056	11.216 12.862		18.29 13.78	C
ATOM ATOM	1585	N			207	50.298	45.162	12.272		19.37	N
ATOM	1586	CA			207	48.842	45.342	12.190		19.36	C
ATOM	1587	C			207	48.074	44.991	13.454		20.77	C
ATOM	1588	0			207	48.467	44.101	14.217		21.58	0
ATOM	1589	CB			207	48.438	44.502	10.976		20.41	C
ATOM	1590	CG			207	49.599	43.616	10.723		24.83	C
ATOM	1591	CD			207	50.796	44.399	11.116		18.81	C
ATOM	1592	N	MET			47.018	45.752	13.711		20.77	N
ATOM	1593	CA			208	46.206	45.549	14.904		25.46	C
ATOM	1594	C	MET			44.884	44.812	14.685		26.38	C
ATOM	1595	0			208	44.144	45.105	13.746		26.67	0
ATOM	1596	СВ	MET			45.980	46.885	15.595		27.61	C
ATOM	1597	CG	MET			47.277	47.505	16.085		33.50	C
ATOM	1598	SD	MET			47.067	49.146	16.732		40.06	S
ATOM	1599	CE	MET			47.200	50.087	15.211		38.63	C
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ATOM	1600	N	ARG	А	209	44.599	43.863	15.576	1.00 24.72	N
MOTA	1601	CA			209	43.392	43.049	15.501	1.00 24.45	С
MOTA	1602	С	ARG	Α	209	42.696	42.958	16.844	1.00 22.34	С
MOTA	1603	0	ARG	Α	209	43.283	43.212	17.882	1.00 24.61	0
MOTA	1604	СВ	ARG	Α	209	43.735	41.635	15.020	1.00 24.89	С
MOTA	1605	CG	ARG	Α	209	44.381	41.573	13.645	1.00 24.38	С
MOTA	1606	CD	ARG	Α	209	43.482	42.192	12.595	1.00 26.11	С
MOTA	1607	NE	ARG	Α	209	44.063	42.119	11.255	1.00 24.33	N
MOTA	1608	CZ	ARG	Α	209	44.497	43.165	10.555	1.00 27.22	С
ATOM	1609	NH1			209	44.437	44.395	11.056	1.00 25.64	N
MOTA	1610	NH2	ARG			44.958	42.985	9.324	1.00 26.03	N
ATOM	1611	N			210	41.440	42.554	16.811	1.00 22.03	N
MOTA	1612	CA			210	40.632	42.422	18.014	1.00 22.70	С
MOTA	1613	С			210	40.230	40.963	18.159	1.00 21.38	С
MOTA	1614	0			210	39.893	40.316	17.175	1.00 23.72	0
ATOM	1615	СВ			210	39.387	43.295	17.883	1.00 19.12	С
MOTA	1616	CG			210	38.414	43.167	19.024	1.00 20.78	С
MOTA	1617	CD			210	37.101	43.854	18.727	1.00 24.49	С
MOTA	1618	OE1	GLU		210	36.802	44.048	17.532	1.00 23.90	0
MOTA	1619	OE2	GLU			36.361	44.190	19.677	1.00 23.80	0
MOTA	1620	N			211	40.275	40.446	19.382	1.00 18.27	N
MOTA	1621	CA			211	39.928	39.052	19.627	1.00 22.21	С
ATOM	1622	С			211	38.987	38.930	20.819	1.00 23.89	С
ATOM	1623	0			211	39.132	39.642	21.810	1.00 27.69	0
MOTA	1624	СВ			211	41.197	38.217	19.874	1.00 20.50	С
MOTA	1625	CG			211	42.172	38.272	18.750	1.00 22.32	С
MOTA	1626		PHE			41.950	37.539	17.590	1.00 23.71	С
ATOM	1627		PHE			43.279	39.121	18.813	1.00 21.98	С
ATOM	1628		PHE			42.816	37.657	16.493	1.00 23.37	С
ATOM	1629		PHE			44.150	39.247	17.726	1.00 22.32	С
ATOM	1630	CZ			211	43.914	38.512	16.562	1.00 21.55	С
ATOM	1631	N			212	38.040	38.005	20.722	1.00 23.47	N
ATOM	1632	CA			212	37.069	37.779	21.780	1.00 22.49	C
ATOM	1633	С			212	36.974	36.282	22.063	1.00 21.88	С
ATOM	1634	0			212	36.935	35.476	21.134	1.00 20.71	0
ATOM	1635	CB			212	35.703	38.308	21.343	1.00 22.00	C
ATOM	1636	CG	LEU		212	34.533	38.159	22.318	1.00 25.59	C
ATOM	1637	CD1			212	34.666	39.192 38.340	23.444 21.583	1.00 25.63 1.00 22.24	С
ATOM	1638		LEU			33.220				C
ATOM	1639	N			213	37.001	35.905	23.339	1.00 20.47 1.00 22.20	N
ATOM	1640	CA			213	36.883 35.436	34.493	23.687		C
ATOM	1641 1642	C 0			213 213	34.492	34.055 34.792	23.413 23.677	1.00 22.43 1.00 21.33	
ATOM ATOM	1643	CB			213	37.263	34.792	25.151	1.00 21.33	0 C
	1644	CG			213	37.203	32.795	25.507	1.00 21.56	C
ATOM ATOM	1645		HIS			36.288	31.985	25.712	1.00 23.11	N
ATOM	1646		HIS			38.472	32.005	25.661	1.00 20.47	C
ATOM	1647		HIS			36.696	30.754	25.975	1.00 20.47	C
ATOM	1648		HIS			38.015	30.740	25.951	1.00 26.94	N
ATOM	1649	NEZ N			214	35.271	32.849	22.888	1.00 25.55	N
ATOM	1650	CA			214	33.953	32.326	22.548	1.00 25.86	C
ATOM	1651	CA			214	32.959	32.265	23.717	1.00 27.36	C
ATOM	1652	0			214	31.748	32.203	23.717	1.00 27.30	0
ATOM	1653	CB			214	34.076	30.960	21.814	1.00 25.10	C
ATOM	1654		VAL			34.380	29.823	22.798	1.00 25.10	C
ATOM	1655		VAL			32.837	30.686	20.980	1.00 26.93	C
111 01.1	1000	002	ν Δ1.11		217	52.057	50.000	20.700	1.00 20.70	C

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ATOM	1656	N	ASP	Α	215	33.453	32.182	24.951	1.00 29.40
ATOM	1657	CA	ASP	Α	215	32.546	32.140	26.101	1.00 27.62
ATOM	1658	С	ASP	Α	215	31.988	33.518	26.371	1.00 26.64
ATOM	1659	0	ASP	Α	215	30.856	33.655	26.833	1.00 28.84
ATOM	1660	СВ	ASP	Α	215	33.217	31.559	27.346	1.00 25.75
ATOM	1661	CG	ASP	Α	215	33.418	30.058	27.247	1.00 26.44
ATOM	1662	OD1	ASP	А	215	32.732	29.397	26.441	1.00 27.37
ATOM	1663	OD2	ASP	А	215	34.275	29.531	27.971	1.00 31.18
ATOM	1664	N			216	32.787	34.542	26.104	1.00 24.22
ATOM	1665	CA			216	32.307	35.898	26.271	1.00 24.84
ATOM	1666	С			216	31.277	36.122	25.156	1.00 27.00
ATOM	1667	0			216	30.269	36.788	25.351	1.00 28.29
ATOM	1668	СВ			216	33.450	36.899	26.128	1.00 27.51
ATOM	1669	CG			216	34.002	37.372	27.467	1.00 30.57
ATOM	1670	OD1			216	33.296	37.287	28.501	1.00 33.61
ATOM	1671	OD2	ASP			35.150	37.867	27.468	1.00 30.91
ATOM	1672	N			217	31.547	35.563	23.981	1.00 26.79
ATOM	1673	CA			217	30.641	35.683	22.849	1.00 26.75
ATOM	1674	С			217	29.275	35.096	23.247	1.00 27.44
ATOM	1675	0			217	28.244	35.759	23.116	1.00 27.67
ATOM	1676	СВ			217	31.220	34.936	21.641	1.00 30.32
ATOM	1677	CG			217	30.258	34.764	20.471	1.00 34.35
ATOM	1678	SD			217	29.777	36.387	19.891	1.00 44.98
ATOM	1679	CE			217	28.212	35.999	19.186	1.00 51.43
ATOM	1680	N			218	29.282	33.866	23.756	1.00 24.61
ATOM	1681	CA			218	28.060	33.198	24.181	1.00 23.32
ATOM	1682	C			218	27.296	34.030	25.225	1.00 25.63
ATOM	1683	0			218	26.078	34.161	25.149	1.00 27.74
ATOM	1684	СВ			218	28.389	31.828	24.733	1.00 17.41
ATOM	1685	N			219	28.020	34.624	26.171	1.00 24.15
ATOM	1686	CA			219	27.403	35.431	27.214	1.00 24.70
ATOM	1687	С			219	26.711	36.660	26.649	1.00 27.02
ATOM	1688	0			219	25.590	36.978	27.048	1.00 28.33
ATOM	1689	СВ			219	28.437	35.841	28.246	1.00 23.86
ATOM	1690	N			220	27.384	37.360	25.739	1.00 27.13
ATOM	1691	CA			220	26.817	38.554	25.111	1.00 26.98
ATOM	1692	С			220	25.582	38.167	24.301	1.00 27.38
ATOM	1693	0			220	24.561	38.854	24.344	1.00 29.86
ATOM	1694	СВ			220	27.845	39.228		
ATOM	1695	N			221		0 0 0 0 0	23.598	1.00 25.10
ATOM	1696	CA			221		36.547		
ATOM	1697	С			221	23.284	36.325	23.555	1.00 26.44
ATOM	1698	0			221	22.204	36.757	23.133	1.00 25.90
ATOM	1699	СВ			221	24.984	35.244	22.081	1.00 25.03
ATOM	1700	ŌG			221	25.993	35.506	21.128	1.00 30.18
ATOM	1701	N			222	23.413	35.608	24.666	1.00 25.87
ATOM	1702	CA			222	22.304	35.289	25.546	1.00 26.21
ATOM	1703	C			222	21.763	36.564		1.00 28.52
ATOM	1704	0			222	20.553	36.723		1.00 31.79
ATOM	1705	СВ			222	22.760	34.318	26.635	1.00 26.42
ATOM	1706					23.171	32.989	25.988	1.00 24.50
ATOM	1707		ILE			21.652	34.105	27.650	1.00 25.73
ATOM	1708		ILE			23.907	32.040	26.907	1.00 25.35
ATOM	1709	N			223	22.666	37.493		1.00 27.44
ATOM	1710	CA			223		38.768		1.00 26.97
ATOM	1711	C			223	21.391	39.547		1.00 30.21
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ATOM	1712	0	HIS	Α	223	20.286	39.968	26.481	1.00 29.75	0
ATOM	1713	СВ	HIS	Α	223	23.568	39.565	27.394	1.00 24.64	С
ATOM	1714	CG	HIS	Α	223	23.316	40.973	27.848	1.00 28.40	С
ATOM	1715	ND1	HIS	Α	223	23.212	41.321	29.178	1.00 30.53	N
ATOM	1716	CD2	HIS	Α	223	23.174	42.124	27.147	1.00 28.31	С
ATOM	1717	CE1	HIS			23.018	42.625	29.275	1.00 30.32	С
ATOM	1718					22.991	43.136	28.058	1.00 28.41	N
ATOM	1719	N			224	21.870	39.728	24.881	1.00 29.87	N
ATOM	1720	CA	VAL			21.130	40.443	23.850	1.00 25.73	C
ATOM	1721	C			224	19.810	39.740	23.560	1.00 24.95	C
ATOM	1722	0	VAL			18.776	40.386	23.437	1.00 27.31	0
ATOM	1723	СВ			224	21.971	40.588	22.566	1.00 26.87	C
ATOM	1724	CG1	VAL			21.125	41.147	21.423	1.00 25.42	C
ATOM	1725	CG2				23.154	41.508	22.835	1.00 23.42	C
ATOM	1726	N	MET			19.842	38.416	23.497	1.00 25.08	N
			MET			18.630			1.00 28.73	C
ATOM	1727	CA					37.644	23.260		
ATOM	1728	С	MET			17.583	37.896	24.359	1.00 32.64	С
ATOM	1729	0			225	16.400	38.099	24.071	1.00 32.02	0
ATOM	1730	CB	MET			18.955	36.151	23.220	1.00 27.66	С
ATOM	1731	CG	MET			17.725	35.238	23.178	1.00 25.82	C
ATOM	1732	SD	MET			16.734	35.411	21.677	1.00 28.36	S
ATOM	1733	CE			225	16.712	33.766	21.097	1.00 20.74	С
ATOM	1734	Ν			226	18.035	37.945	25.610	1.00 32.14	N
ATOM	1735	CA			226	17.129	38.128	26.734	1.00 31.80	С
ATOM	1736	С			226	16.734	39.538	27.146	1.00 32.67	С
ATOM	1737	0			226	15.859	39.709	27.986	1.00 35.44	0
ATOM	1738	СВ	GLU	Α	226	17.614	37.300	27.914	1.00 28.79	С
ATOM	1739	CG	GLU	Α	226	17.610	35.827	27.547	1.00 32.66	С
ATOM	1740	CD	GLU	Α	226	18.076	34.908	28.652	1.00 36.63	С
ATOM	1741	OE1	GLU	Α	226	18.737	35.372	29.613	1.00 36.97	0
ATOM	1742	OE2	GLU	Α	226	17.779	33.700	28.537	1.00 35.46	0
ATOM	1743	N	LEU	Α	227	17.322	40.545	26.510	1.00 33.14	N
ATOM	1744	CA	LEU	Α	227	16.993	41.939	26.795	1.00 31.94	С
ATOM	1745	С	LEU	Α	227	15.503	42.196	26.551	1.00 34.79	С
ATOM	1746	0	LEU	Α	227	14.862	41.515	25.742	1.00 30.62	0
ATOM	1747	СВ	LEU	Α	227	17.776	42.844	25.854	1.00 32.79	С
ATOM	1748	CG	LEU	Α	227	18.707	43.863	26.467	1.00 36.00	С
ATOM	1749	CD1	LEU	Α	227	19.637	43.175	27.424	1.00 38.78	С
ATOM	1750	CD2	LEU	А	227	19.483	44.509	25.359	1.00 40.04	С
ATOM	1751	N			228	14.958	43.190	27.244	1.00 36.01	N
ATOM	1752	CA			228	13.553	43.552	27.063	1.00 36.88	С
ATOM	1753	С			228	13.429	44.129	25.661	1.00 34.45	С
ATOM	1754	0			228	14.269	44.926	25.239	1.00 34.10	0
ATOM	1755	СВ			228	13.127	44.594	28.092	1.00 32.13	C
ATOM	1756	N			229	12.379	43.729	24.955	1.00 32.59	И
ATOM	1757	CA			229	12.140	44.195	23.600	1.00 34.80	C
ATOM	1758	C			229	12.191	45.707	23.478	1.00 34.01	C
ATOM	1759	0			229	12.790	46.213	22.535	1.00 36.47	0
ATOM	1760	СВ			229	10.801	43.674	23.073	1.00 37.57	C
ATOM	1761	CG			229	10.631	43.831	21.594	1.00 40.37	C
ATOM	1762		HIS			9.480	44.332	21.025	1.00 40.37	И
ATOM	1763		HIS			11.467	44.332	20.565	1.00 42.96	C
			HIS			9.615	44.352		1.00 39.86	C
ATOM	1764 1765							19.710		
ATOM	1765		HIS			10.812	43.882	19.405	1.00 37.81	N
ATOM	1766	N			230	11.615	46.423	24.448	1.00 34.94	N
ATOM	1767	CA	GTO	А	230	11.609	47.894	24.419	1.00 37.28	С

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13.311 49.497 23.975 1.00 33.81 10.763 48.501 25.545 1.00 44.56 9.431 47.826 25.789 1.00 60.54 9.330 47.232 27.192 1.00 70.73

1772 CD GLU A 230 9.330 47.232 27.192 1.00 70.73
1773 OE1 GLU A 230 10.123 47.636 28.083 1.00 72.57
1774 OE2 GLU A 230 8.450 46.365 27.407 1.00 76.72
1775 N VAL A 231 13.850 47.763 25.322 1.00 30.00
1776 CA VAL A 231 15.238 48.182 25.526 1.00 29.68
1777 C VAL A 231 16.046 47.982 24.240 1.00 30.20
1778 O VAL A 231 16.836 48.850 23.843 1.00 29.79
1779 CB VAL A 231 15.890 47.404 26.687 1.00 31.29
1780 CG1 VAL A 231 17.347 47.839 26.882 1.00 26.02
1781 CG2 VAL A 231 15.094 47.626 27.959 1.00 30.69
1782 N TRP A 232 15.818 46.848 23.578 1.00 28.73
1783 CA TRP A 232 16.500 46.546 22.328 1.00 27.70 MOTA MOTA MOTA MOTA

ATOM 1784 C TRP A 232 16.083 47.543 21.237 1.00 28.56 ATOM 16.934 48.143 20.585 1.00 27.57 ATOM 1785 O TRP A 232 16.183 45.117 21.898 1.00 27.84 1786 CB TRP A 232 ATOM

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1786 CB TRP A 232 16.183 45.117 21.898 1.00 27.84
1787 CG TRP A 232 16.859 44.704 20.613 1.00 31.96
1788 CD1 TRP A 232 18.160 44.313 20.458 1.00 30.23
1789 CD2 TRP A 232 16.257 44.616 19.309 1.00 31.70
1790 NE1 TRP A 232 18.403 43.985 19.146 1.00 29.19
1791 CE2 TRP A 232 17.256 44.162 18.419 1.00 29.11
1792 CE3 TRP A 232 14.973 44.876 18.808 1.00 30.27
1793 CZ2 TRP A 232 17.010 43.959 17.060 1.00 24.75
1794 CZ3 TRP A 232 14.732 44.673 17.462 1.00 28.83
1795 CH2 TRP A 232 15.747 44.221 16.602 1.00 27.54
1796 N LEU A 233 14.776 47.763 21.087 1.00 27.50
1797 CA LEU A 233 14.253 48.688 20.078 1.00 28.59 MOTA MOTA ATOM ATOM

ATOM ATOM ATOM 1797 CA LEU A 233 14.253 48.688 20.078 1.00 28.59 MOTA 1798 C LEU A 233 14.799 50.089 20.262 1.00 28.42

MOTA 1799 O LEU A 233 15.054 50.809 19.295 1.00 31.71 12.726 48.754 20.158 1.00 26.64 MOTA 19.745 1.00 26.28 11.944 47.515 MOTA 10.505 47.664 20.164 1.00 29.05 ATOM

MOTA 12.054 47.331 18.249 1.00 25.22 14.961 50.466 21.522 1.00 31.68 ATOM ATOM 15.447 51.780 21.899 1.00 35.52 ATOM 16.900 52.002 21.503 1.00 33.76

1799 O LEU A 233
1800 CB LEU A 233
1801 CG LEU A 233
1802 CD1 LEU A 233
1803 CD2 LEU A 233
1804 N GLU A 234
1805 CA GLU A 234
1806 C GLU A 234
1807 O GLU A 234
1808 CB GLU A 234
1809 CG GLU A 234
1810 CD GLU A 234
1811 OE1 GLU A 234
1812 OE2 GLU A 234 17.306 53.134 21.234 1.00 34.15 MOTA 23.407 1.00 40.18 15.287 51.944 MOTA 15.539 53.330 23.940 1.00 50.82 MOTA

15.717 53.311 25.452 1.00 62.88 MOTA 14.827 52.766 26.156 1.00 65.09 ATOM 1812 OE2 GLU A 234 16.765 53.810 25.935 1.00 68.71 MOTA

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1811 OEI GLO A 234 14.827 32.768 26.138 1.00 63.09

1812 OE2 GLU A 234 16.765 53.810 25.935 1.00 68.71

1813 N ASN A 235 17.670 50.916 21.436 1.00 34.84

1814 CA ASN A 235 19.089 51.000 21.087 1.00 34.45

1815 C ASN A 235 19.487 50.528 19.706 1.00 33.94

1816 O ASN A 235 20.672 50.330 19.447 1.00 35.53

1817 CB ASN A 235 19.934 50.278 22.128 1.00 38.51

1818 CG ASN A 235 19.975 51.021 23.437 1.00 41.10

1819 OD1 ASN A 235 19.164 50.769 24.330 1.00 44.29

1820 ND2 ASN A 235 20.887 51.984 23.541 1.00 41.78

1821 N THR A 236 18.506 50.323 18.834 1.00 29.80

1822 CA THR A 236 18.765 49.891 17.469 1.00 28.52

1823 C THR A 236 17.745 50.594 16.576 1.00 30.74 MOTA MOTA MOTA

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ATOM	1824	0	THR	Α	236	16.893	51.344	17.065	1.00 31.15	0
ATOM	1825	СВ			236	18.561	48.359	17.301	1.00 25.96	С
ATOM	1826	OG1	THR	Α	236	17.201	48.036	17.583	1.00 22.84	0
ATOM	1827	CG2	THR	Α	236	19.462	47.551	18.234	1.00 21.46	С
ATOM	1828	N	GLN	Α	237	17.859	50.370	15.267	1.00 31.41	N
ATOM	1829	CA	GLN	Α	237	16.922	50.913	14.278	1.00 30.74	С
MOTA	1830	С	GLN	Α	237	16.391	49.705	13.511	1.00 30.13	С
MOTA	1831	0	GLN	Α	237	17.093	48.709	13.367	1.00 30.83	0
MOTA	1832	CB	GLN	Α	237	17.614	51.871	13.321	1.00 30.71	С
MOTA	1833	CG	GLN	Α	237	17.958	53.190	13.936	1.00 39.09	С
MOTA	1834	CD	GLN	Α	237	19.374	53.590	13.620	1.00 49.12	С
ATOM	1835	OE1	GLN	Α	237	20.313	53.160	14.296	1.00 56.24	0
MOTA	1836	NE2	GLN	Α	237	19.551	54.384	12.564	1.00 52.48	N
MOTA	1837	N	PRO	Α	238	15.148	49.777	13.008	1.00 28.75	N
ATOM	1838	CA	PRO			14.546	48.668	12.267	1.00 26.59	С
MOTA	1839	С			238	15.370	48.183	11.080	1.00 26.19	С
MOTA	1840	0	PRO			15.372	46.990	10.770	1.00 26.84	0
MOTA	1841	CB	PRO			13.203	49.250	11.822	1.00 28.43	С
MOTA	1842	CG	PRO			12.880	50.225	12.891	1.00 26.13	С
MOTA	1843	CD	PRO			14.208	50.909	13.083	1.00 30.19	С
MOTA	1844	N			239	16.059	49.100	10.414	1.00 20.47	N
MOTA	1845	CA			239	16.863	48.714	9.279	1.00 20.57	С
MOTA	1846	С	MET			18.370	48.791	9.530	1.00 20.29	С
ATOM	1847	0			239	19.161	48.774	8.602	1.00 22.25	0
ATOM	1848	СВ	MET			16.430	49.494	8.040	1.00 18.56	С
MOTA	1849	CG	MET			15.032	49.109	7.565	1.00 20.01	С
ATOM	1850	SD	MET			14.434	50.039	6.130	1.00 23.58	S
ATOM	1851	CE	MET			15.155	49.108	4.748	1.00 20.88	С
ATOM	1852	Ν			240	18.755	48.861	10.797	1.00 17.81	N
ATOM	1853	CA	LEU			20.157	48.871	11.213	1.00 16.99	С
ATOM	1854	С			240	20.081	48.303	12.630	1.00 19.58	С
ATOM	1855	0	LEU			20.384	48.969	13.625	1.00 19.66	0
ATOM	1856	CB	LEU			20.736	50.284	11.207	1.00 18.37	C
ATOM	1857	CG			240	22.272	50.286	11.228	1.00 19.59	С
ATOM	1858	CD1	LEU			22.795	49.756	9.918	1.00 21.67	C
ATOM	1859	CD2	LEU			22.810	51.674	11.462	1.00 24.51	С
ATOM	1860	N			241	19.670	47.043	12.686	1.00 18.47	N
ATOM	1861	CA	SER		241	19.421	46.344	13.930	1.00 20.76	С
ATOM	1862	С	_			20.501	45.459	14.553	1.00 23.25 1.00 21.32	С
ATOM	1863	O CB			241	20.340 18.164	45.004	15.693 13.736	1.00 21.32	0
ATOM ATOM	1864 1865	CB OG			241 241	18.386	45.494 44.468	12.772	1.00 20.80	C
	1866	N				21.564	45.161	13.812	1.00 21.31	O
ATOM ATOM	1867	CA			242 242	22.591	44.286	14.347	1.00 19.16	N C
ATOM	1868	CA	HIS			23.398	44.200	15.450	1.00 22.17	C
ATOM	1869	0			242	23.443	46.173	15.560	1.00 20.03	0
ATOM	1870	CB	HIS			23.501	43.774	13.224	1.00 20.03	C
ATOM	1871	CG			242	24.091	44.858	12.377	1.00 20.43	C
ATOM	1872		HIS			25.432	45.187	12.409	1.00 20.43	N
ATOM	1873		HIS			23.526	45.682	11.463	1.00 22.32	C
ATOM	1874		HIS			25.665	46.163	11.548	1.00 18.89	C
ATOM	1875		HIS			24.525	46.482	10.962	1.00 23.47	N
ATOM	1876	N			243	23.995	44.125	16.303	1.00 24.37	N
ATOM	1877	CA			243	24.816	44.629	17.392	1.00 25.31	C
ATOM	1878	C			243	26.201	43.985	17.372	1.00 24.25	C
ATOM	1879	0			243	26.327	42.759	17.359	1.00 22.73	0
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ATOM	1992	N	THR	Α	259	52.609	36.767	23.180	1.00 19.29	N
ATOM	1993	CA	THR	Α	259	51.810	36.276	24.312	1.00 18.02	С
ATOM	1994	С	THR	Α	259	51.563	34.776	24.169	1.00 19.45	С
ATOM	1995	0	THR	Α	259	51.644	34.044	25.140	1.00 24.61	0
ATOM	1996	СВ	THR	Α	259	50.469	37.023	24.451	1.00 18.75	С
ATOM	1997	OG1	THR	А	259	50.720	38.429	24.586	1.00 21.42	0
ATOM	1998	CG2			259	49.695	36.528	25.676	1.00 14.05	С
MOTA	1999	N			260	51.277	34.315	22.956	1.00 19.74	N
ATOM	2000	CA			260	51.076	32.891	22.722	1.00 19.52	С
ATOM	2001	С			260	52.367	32.138	23.068	1.00 20.21	С
ATOM	2002	0			260	52.316	31.120	23.756	1.00 23.47	0
ATOM	2003	СВ			260	50.650	32.608	21.258	1.00 19.37	С
ATOM	2004	CG1	ILE			49.229	33.143	21.030	1.00 20.82	С
ATOM	2005	CG2	ILE			50.738	31.109	20.943	1.00 17.60	С
ATOM	2006	CD1	ILE			48.668	32.912	19.616	1.00 18.62	С
ATOM	2007	N	ALA			53.516	32.657	22.632	1.00 18.83	N
ATOM	2008	CA	ALA			54.809	32.031	22.929	1.00 16.59	С
ATOM	2009	С	ALA			54.970	31.822	24.436	1.00 18.33	С
ATOM	2010	0	ALA			55.381	30.751	24.888	1.00 20.22	0
ATOM	2011	CB	ALA			55.950	32.891	22.398	1.00 14.07	C
ATOM	2012	N	LYS			54.644	32.853	25.210	1.00 18.66	N
ATOM	2013	CA	LYS			54.733	32.791	26.667	1.00 18.10	С
ATOM	2014	С	LYS			53.785	31.741	27.270	1.00 21.96	С
ATOM	2015	0			262	54.197	30.944	28.104	1.00 23.65	0
ATOM	2016	CB	LYS			54.427	34.163	27.263	1.00 19.69	С
ATOM	2017	CG	LYS			54.290	34.176	28.775	1.00 26.08	C
ATOM	2018	CD	LYS			53.666	35.484	29.208	1.00 39.95	C
ATOM	2019	CE	LYS			53.326	35.523	30.694	1.00 45.02	С
ATOM	2020	NΖ	LYS			52.690	36.849	31.027	1.00 50.41	N
ATOM	2021	N			263	52.515	31.774	26.863	1.00 21.38	И
ATOM	2022	CA	VAL			51.480	30.849	27.327	1.00 20.98	C
ATOM	2023	С	VAL			51.864	29.376	27.088	1.00 22.45	С
ATOM ATOM	2024 2025	O CB	VAL VAL			51.583 50.120	28.496 31.158	27.898 26.607	1.00 22.61 1.00 19.85	O C
ATOM	2025	CG1	VAL			49.153	29.999	26.746	1.00 20.42	C
ATOM	2027		VAL			49.133	32.422	27.175	1.00 20.42	C
ATOM	2027	N			264	52.495	29.116	25.958	1.00 21.97	И
ATOM	2029	CA	VAL			52.495	27.771	25.591	1.00 23.55	C
ATOM	2029	C	VAL			54.234	27.771	26.217	1.00 23.33	C
ATOM	2030	0	VAL			54.530	26.151	26.294	1.00 25.93	0
ATOM	2031	CB			264	52.908	27.662	24.044	1.00 24.27	C
ATOM	2032		VAL			53.620	26.418	23.576	1.00 24.27	C
ATOM	2033		VAL			51.459	27.681	23.570	1.00 24.80	C
ATOM	2035	N			265	55.010	28.295	26.712	1.00 22.94	И
ATOM	2036	CA			265	56.292	27.973	27.304	1.00 23.63	C
ATOM	2037	C			265	57.414	27.866	26.282	1.00 26.39	C
ATOM	2038	0			265	58.411	27.174	26.522	1.00 27.09	0
ATOM	2039	N			266	57.248	28.534	25.137	1.00 26.29	N
ATOM	2040	CA			266	58.254	28.526	24.069	1.00 24.31	C
ATOM	2041	C			266	59.442	29.408	24.455	1.00 24.08	C
ATOM	2042	0			266	59.255	30.568	24.832	1.00 22.89	0
ATOM	2043	СВ			266	57.647	29.022	22.750	1.00 20.17	C
ATOM	2044	CG			266	58.620	29.006	21.588	1.00 19.46	C
ATOM	2045	CD1			266	59.247	27.820	21.200	1.00 20.34	C
ATOM	2046		TYR			58.917	30.176	20.875	1.00 18.59	C
ATOM	2047		TYR			60.146	27.795	20.129	1.00 20.88	C
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ATOM	2104	СВ	ASP	Α	273	59.439	37.078	7.365	1.00	21.56	С
ATOM	2105	CG	ASP	Α	273	60.167	37.168	6.040	1.00	23.22	С
ATOM	2106		ASP			60.515	38.281	5.594		24.71	0
ATOM	2107		ASP			60.388	36.108	5.431	1.00		0
ATOM	2108	N			274	59.403	40.701	7.552	1.00		N
ATOM	2109	CA	ALA			58.812	41.913	6.971	1.00		С
ATOM	2110	С	ALA			58.874	41.983	5.461	1.00		C
ATOM	2111	0	ALA			58.460	42.973	4.882		25.72	0
ATOM	2112	CB	ALA			59.441	43.176	7.579		20.97	C
ATOM	2113	N			275	59.449	40.974	4.818		24.06	N
MOTA	2114	CA			275	59.490	40.982	3.364		25.84 26.17	C
ATOM ATOM	2115 2116	C 0			275 275	58.134 57.930	40.486 40.443	2.823 1.618		30.03	C 0
ATOM	2117	CB			275	60.626	40.109	2.840	1.00		C
ATOM	2118	OG			275	60.309	38.736	2.975	1.00		0
ATOM	2119	N			276	57.242	40.064	3.722	1.00		N
ATOM	2120	CA			276	55.911	39.601	3.355		21.55	C
ATOM	2121	C			276	54.966	40.738	3.704		23.51	C
ATOM	2122	0			276	55.168	41.426	4.697		21.94	0
ATOM	2123	СВ			276	55.525	38.366	4.152		18.43	C
ATOM	2124	CG	LYS			56.465	37.217	3.949		23.40	C
ATOM	2125	CD			276	56.376	36.686	2.563	1.00		C
ATOM	2126	CE			276	57.293	35.503	2.404	1.00		C
ATOM	2127	NΖ			276	57.091	34.884	1.073	1.00	20.57	N
ATOM	2128	N			277	53.901	40.927	2.905	1.00		N
ATOM	2129	CA	PRO	Α	277	52.913	41.989	3.111	1.00	23.21	С
ATOM	2130	С	PRO	Α	277	51.993	41.791	4.306	1.00	25.16	С
ATOM	2131	0	PRO	Α	277	51.755	40.669	4.755	1.00	27.63	0
ATOM	2132	СВ	PRO	Α	277	52.122	41.956	1.814	1.00	24.36	С
ATOM	2133	CG	PRO	Α	277	52.099	40.482	1.495	1.00	27.14	С
ATOM	2134	CD	PRO	А	277	53.537	40.088	1.744	1.00	25.99	С
ATOM	2135	N			278	51.526	42.904	4.855	1.00		И
ATOM	2136	CA			278	50.595	42.877	5.975		27.24	С
ATOM	2137	С	ASP			49.214	43.061	5.372		28.04	С
ATOM	2138	0	ASP		278	49.090	43.374	4.192		30.83	0
ATOM	2139	CB			278	50.842	44.055	6.926		24.65	C
ATOM	2140	CG			278	52.163	43.971	7.648		27.25	C
ATOM	2141		ASP			52.517	42.890	8.146		25.95	0
ATOM	2142		ASP			52.834	45.015	7.746		31.23	0
MOTA	2143	N			279	48.178	42.853	6.180 5.720	1.00		N
ATOM ATOM	2144 2145	CA C			279 279	46.813 46.500	43.074 44.521	6.075	1.00		C
ATOM	2145	0			279	47.421	45.345	6.143	1.00		0
ATOM	2147	N			280	45.232	44.849	6.318	1.00		И
ATOM	2148	CA			280	44.885	46.221	6.693	1.00		C
ATOM	2149	C			280	45.582	46.496	8.024	1.00		C
ATOM	2150	0			280	45.774	45.589	8.833	1.00		0
ATOM	2151	СВ			280	43.360	46.416	6.841	1.00		C
ATOM	2152	OG1			280	42.837	45.434	7.741	1.00		0
ATOM	2153	CG2			280	42.666	46.278	5.485	1.00		C
ATOM	2154	N			281	45.988	47.745	8.255	1.00		И
ATOM	2155	CA			281	46.680	48.155	9.481	1.00		C
ATOM	2156	С			281	45.918	47.938	10.779	1.00		С
ATOM	2157	0	PRO	Α	281	46.501	47.599	11.811	1.00		0
ATOM	2158	СВ	PRO	Α	281	46.909	49.651	9.256	1.00	30.84	С
ATOM	2159	CG	PRO	Α	281	46.961	49.774	7.771	1.00	34.01	С

ATOM	2160	CD	PRO	Α	281	45.829	48.888	7.344	1.00 28.72	С
ATOM	2161	N	ARG	Α	282	44.606	48.083	10.718	1.00 30.96	N
ATOM	2162	CA	ARG	Α	282	43.818	47.979	11.926	1.00 32.35	С
MOTA	2163	С	ARG	Α	282	42.416	47.519	11.627	1.00 31.51	С
MOTA	2164	0	ARG	Α	282	41.810	47.901	10.628	1.00 31.57	0
ATOM	2165	СВ	ARG	Α	282	43.782	49.357	12.590	1.00 31.46	С
ATOM	2166	CG	ARG	Α	282	43.200	49.409	13.961	1.00 32.99	С
ATOM	2167	CD	ARG	А	282	43.436	50.801	14.500	1.00 36.29	С
MOTA	2168	NE	ARG			42.986	50.924	15.885	1.00 41.71	N
ATOM	2169	CZ			282	42.170	51.883	16.320	1.00 45.63	С
MOTA	2170	NH1	ARG			41.718	52.814	15.484	1.00 47.45	N
ATOM	2171	NH2	ARG			41.760	51.873	17.589	1.00 43.84	И
ATOM	2172	N			283	41.867	46.753	12.550	1.00 32.60	N
ATOM	2173	CA			283	40.542	46.244	12.352	1.00 30.39	С
ATOM	2174	С	LYS			39.945	45.838	13.675	1.00 28.42	С
ATOM	2175	0			283	40.431	44.923	14.333	1.00 29.84	0
ATOM	2176	СВ			283	40.640	45.067	11.413	1.00 31.50	С
ATOM	2177	CG	LYS			39.354	44.561	10.894	1.00 44.32	С
ATOM	2178	CD			283	39.675	43.355	10.029	1.00 58.01	С
ATOM	2179	CE			283	38.476	42.395	9.876	1.00 69.55	С
ATOM	2180	NΖ			283	38.835	41.067	9.205	1.00 76.75	N
ATOM	2181	N			284	38.973	46.619	14.123	1.00 26.11	N
ATOM	2182	CA			284	38.271	46.327	15.371	1.00 26.63	C
ATOM	2183	С	LEU			36.877	46.929	15.326	1.00 23.27	C
MOTA	2184	0			284	36.611	47.850	14.555	1.00 22.69	0
ATOM	2185	CB			284	39.031	46.848	16.599	1.00 28.04	C
ATOM	2186	CG			284	38.896	48.324	16.973	1.00 30.81	C
ATOM	2187	CD1	LEU			39.409	48.533	18.380	1.00 26.46	C
ATOM	2188		LEU			39.666	49.186	15.984	1.00 31.85	C
ATOM	2189	N			285	35.987	46.395	16.151	1.00 23.65	N
ATOM	2190	CA			285	34.611	46.857	16.205	1.00 23.79	C
ATOM	2191	С			285	34.374	47.945	17.235	1.00 25.01	С
ATOM	2192	0	LEU			35.070	48.018	18.245	1.00 27.33	0
ATOM	2193	CB			285	33.686	45.687	16.550	1.00 17.98	С
ATOM	2194	CG			285	33.682	44.446	15.673	1.00 16.31 1.00 16.67	С
ATOM	2195 2196	CD1 CD2	LEU LEU			32.655 33.348	43.482 44.815	16.252 14.236	1.00 16.67 1.00 16.61	C
ATOM ATOM	2190	N				33.340	48.798	16.947	1.00 25.72	N
ATOM	2198	CA			286	32.976	49.849	17.859	1.00 25.72	C
ATOM	2199	CA	ASP			31.882	49.118	18.644	1.00 27.52	C
ATOM	2200	0			286	30.873	48.718	18.073	1.00 27.32	0
ATOM	2201	СВ			286	32.374	51.015	17.065	1.00 29.93	C
ATOM	2202	CG			286	32.042	52.231	17.937	1.00 23.35	C
ATOM	2203		ASP			31.615	52.055	19.099	1.00 32.00	0
ATOM	2204		ASP			32.195	53.372	17.448	1.00 34.96	0
ATOM	2205	N			287	32.104	48.886	19.931	1.00 26.55	N
ATOM	2206	CA	VAL			31.124	48.176	20.741	1.00 25.97	C
ATOM	2207	C			287	30.294	49.071	21.664	1.00 29.50	C
ATOM	2208	0	VAL			29.724	48.600	22.656	1.00 28.86	0
ATOM	2209	СВ	VAL			31.793	47.040	21.554	1.00 27.71	C
ATOM	2210		VAL			32.253	45.915	20.615	1.00 26.17	C
ATOM	2211		VAL			32.978	47.584	22.327	1.00 27.97	C
ATOM	2212	N			288	30.201	50.350	21.300	1.00 31.59	N
ATOM	2213	CA			288	29.442	51.348	22.061	1.00 31.99	C
ATOM	2214	C			288	28.025	50.882	22.353	1.00 31.50	C
ATOM	2215	0			288	27.594	50.879	23.502	1.00 35.22	0

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ATOM	2216	СВ	THR	А	288	29.349	52.666	21.283	1.00 32.8	37 C
ATOM	2217	OG1			288	30.650	53.256	21.191	1.00 34.2	
ATOM	2218	CG2			288	28.402	53.627	21.968	1.00 34.6	
ATOM	2219	N			289	27.324	50.483	21.294	1.00 32.1	
ATOM	2220	CA			289	25.947	49.997	21.352	1.00 28.9	
ATOM	2221	C			289	25.798	48.835	22.346	1.00 30.5	
ATOM	2222	0			289	24.856	48.791	23.150	1.00 29.6	
ATOM	2223	СВ			289	25.523	49.564	19.940	1.00 29.0	
ATOM	2224	CG			289	24.034	49.451	19.713	1.00 29.2	
ATOM	2225	CD			289	23.709	49.003	18.297	1.00 30.2	
ATOM	2226	NE			289	23.298	50.085	17.396	1.00 28.7	
ATOM	2227	CZ			289	22.577	49.889	16.286	1.00 33.5	
ATOM	2228	NH1			289	22.190	48.662	15.947	1.00 29.7	
ATOM	2229	NH2	ARG			22.251	50.909	15.494	1.00 29.5	
ATOM	2230	N			290	26.760	47.918	22.320	1.00 29.7	
ATOM	2231	CA			290	26.736	46.770	23.215	1.00 30.1	
ATOM	2232	C			290	26.942	47.193	24.666	1.00 30.1	
ATOM	2233	0			290	26.277	46.685	25.575	1.00 30.3	
ATOM	2234	СВ			290	27.814	45.770	22.818	1.00 28.8	
ATOM	2235	CG			290	27.879	44.502	23.660	1.00 29.7	
ATOM	2236	CD1			290	26.551	43.743	23.593	1.00 26.1	
ATOM	2237		LEU			29.039	43.651	23.171	1.00 32.5	
ATOM	2238	N			291	27.884	48.105	24.883	1.00 33.3	
ATOM	2239	CA			291	28.176	48.578	26.227	1.00 35.3	
ATOM	2240	C			291	26.993	49.333	26.805	1.00 38.3	
ATOM	2241	0			291	26.672	49.178	27.985	1.00 39.4	
ATOM	2242	СВ			291	29.445	49.421	26.222	1.00 32.7	
ATOM	2243	CG			291	30.688	48.612	26.029	1.00 30.9	
ATOM	2244		HIS			31.930	49.177	25.840	1.00 29.5	
ATOM	2245		HIS			30.878	47.267	26.017	1.00 26.2	
ATOM	2246		HIS			32.836	48.217	25.723	1.00 28.2	
ATOM	2247		HIS			32.221	47.053	25.827	1.00 29.2	
ATOM	2248	N			292	26.310	50.103	25.959	1.00 39.3	
ATOM	2249	CA			292	25.130	50.842	26.395	1.00 40.5	
ATOM	2250	C			292	23.996	49.881	26.737	1.00 38.7	
ATOM	2251	0			292	23.086	50.243	27.467	1.00 40.3	
ATOM	2252	СВ			292	24.690	51.854	25.344	1.00 41.0	
ATOM	2253	CG			292	25.657	53.022	25.230	1.00 48.9	
ATOM	2254	CD	GLN	А	292	25.282	54.014	24.131	1.00 56.3	
ATOM	2255	OE1			292	25.637	55.197	24.204	1.00 56.2	
ATOM	2256	NE2	GLN			24.579	53.535	23.097	1.00 55.5	
ATOM	2257	N			293	24.049	48.660	26.211	1.00 34.6	
ATOM	2258	CA			293	23.037	47.658	26.523	1.00 31.5	
ATOM	2259	С			293	23.447	46.956	27.814	1.00 33.0	
ATOM	2260	0			293	22.858	45.937	28.202	1.00 30.3	
ATOM	2261	СВ			293	22.913	46.628	25.403	1.00 36.0	
ATOM	2262	CG			293	22.304	47.081	24.080	1.00 38.5	
ATOM	2263		LEU			22.329	45.911	23.118	1.00 36.3	
ATOM	2264		LEU			20.876	47.570	24.296	1.00 38.1	
ATOM	2265	N			294	24.510	47.475	28.431	1.00 34.6	
ATOM	2266	CA			294	25.012	46.943	29.691	1.00 36.1	
ATOM	2267	С			294	25.848	45.671	29.709	1.00 35.1	
ATOM	2268	0			294	25.885	44.980	30.726	1.00 35.6	
ATOM	2269	N			295	26.511	45.337	28.607	1.00 34.3	
ATOM	2270	CA			295	27.337	44.138	28.598	1.00 30.9	
ATOM	2271	С			295	28.787	44.487	28.337	1.00 31.4	

ATOM	2272	0	TRP	Α	295	29.090	45.321	27.475	1.00	30.22	0
ATOM	2273	СВ	TRP	Α	295	26.851	43.117	27.569	1.00	28.03	С
ATOM	2274	CG	TRP	Α	295	27.566	41.799	27.685	1.00	28.70	С
MOTA	2275	CD1	TRP	А	295	27.197	40.731	28.449	1.00	27.81	С
MOTA	2276	CD2	TRP	Α	295	28.782	41.418	27.024	1.00	25.62	С
MOTA	2277	NE1	TRP	Α	295	28.105	39.707	28.304	1.00	29.40	N
MOTA	2278	CE2	TRP	Α	295	29.087	40.106	27.436	1.00	27.15	С
MOTA	2279	CE3	TRP	Α	295	29.639	42.060	26.120	1.00	26.82	С
MOTA	2280	CZ2	TRP	Α	295	30.215	39.424	26.978	1.00	27.03	С
ATOM	2281	CZ3	TRP	А	295	30.755	41.385	25.665	1.00	24.97	С
ATOM	2282	CH2	TRP	Α	295	31.035	40.078	26.093	1.00	27.00	С
MOTA	2283	N	TYR			29.663	43.849	29.115	1.00	31.36	N
ATOM	2284	CA	TYR			31.109	44.021	29.022		31.61	С
ATOM	2285	С	TYR			31.775	42.653	29.121		32.30	С
MOTA	2286	0	TYR			31.335	41.793	29.889		34.35	0
ATOM	2287	СВ	TYR			31.610	44.917	30.145		33.20	С
ATOM	2288	CG	TYR			31.291	46.373	29.948		39.46	С
ATOM	2289	CD1	TYR			30.042	46.898	30.316		42.21	С
ATOM	2290	CD2	TYR			32.240	47.238	29.407	1.00	41.88	С
ATOM	2291	CE1	TYR			29.744	48.254	30.147		43.94	С
ATOM	2292	CE2	TYR			31.960	48.597	29.236		47.98	С
ATOM	2293	CZ	TYR			30.711	49.102	29.608		49.98	С
ATOM	2294	OH	TYR			30.448	50.454	29.444	1.00	54.16	0
ATOM	2295	N	HIS			32.830	42.448	28.336	1.00	32.28	N
ATOM	2296	CA	HIS			33.534	41.169	28.335		34.79	С
ATOM	2297	С	HIS			34.309	40.937	29.625		37.14	С
ATOM	2298	0	HIS			34.730	41.889	30.284	1.00	39.70	0
ATOM	2299	СВ	HIS			34.471	41.063	27.128		32.40	С
ATOM	2300	CG	HIS			35.589	42.055	27.140		30.14	С
ATOM	2301	ND1	HIS			35.385	43.406	26.961		32.99	N
ATOM	2302	CD2	HIS			36.924	41.891	27.289	1.00	29.27	С
ATOM	2303	CE1	HIS			36.547	44.033	26.996		29.09	С
ATOM	2304	NE2	HIS		297	37.496	43.137	27.193	1.00	28.81	N
ATOM	2305	N	GLU			34.506	39.666	29.964		37.95	N
ATOM	2306	CA	GLU			35.215	39.282	31.177	1.00	39.72	С
ATOM	2307	С	GLU			36.573	38.623	30.959	1.00	38.27	С
ATOM	2308	O	GLU			37.493	38.807	31.759	1.00	39.61	0
ATOM	2309	CB	GLU			34.344	38.347	32.002 32.594		42.46	С
ATOM	2310	CG	GLU			33.146	39.034			55.98	С
MOTA	2311	CD OF 1	GLU			32.374	38.122	33.506		63.04 68.90	С
ATOM	2312 2313	OE1 OE2	GLU GLU			32.800	37.957	34.671		68.64	0
MOTA	2313				299	31.353 36.694	37.556 37.857	33.054 29.883		33.27	И
ATOM	2314	N CA			299	37.928	37.142	29.583		29.85	C
ATOM	2316	CA			299	38.984	37.142	28.849		29.75	C
ATOM ATOM	2317	0			299	38.759	38.439	27.728		28.05	
ATOM	2317	CB			299	37.598	35.851	28.816		27.12	O C
ATOM	2310	CG1			299	36.603	35.020	29.635		24.67	C
ATOM	2320	CG2	ILE			38.847	35.020	28.562		26.04	C
ATOM	2321	CD1	ILE			35.847	33.965	28.834		26.64	C
ATOM	2321	N	SER			40.117	38.199	29.515		28.39	N
ATOM	2323	CA			300	41.220	38.961	28.924		29.33	C
ATOM	2323	CA	SER			42.012	38.022	28.005		28.04	C
ATOM	2325	0	SER			41.935	36.800	28.150		27.86	0
ATOM	2326	CB	SER			42.138	39.517	30.008		28.67	C
ATOM	2327	ОG	SER			42.136	38.477	30.571		36.57	0
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ATOM	2328	N	LEU	Α	301	42.806	38.590	27.100	1.00 28.52	N
ATOM	2329	CA	LEU	А	301	43.573	37.786	26.144	1.00 29.49	С
ATOM	2330	С	LEU	Α	301	44.470	36.691	26.743	1.00 30.74	С
ATOM	2331	0	LEU	А	301	44.337	35.514	26.392	1.00 28.70	0
ATOM	2332	СВ	LEU	Α	301	44.390	38.685	25.214	1.00 25.35	С
ATOM	2333	CG	LEU	Α	301	44.994	37.935	24.022	1.00 28.28	С
ATOM	2334	CD1	LEU		301	43.908	37.432	23.080	1.00 22.78	С
ATOM	2335	CD2	LEU	Α	301	45.942	38.849	23.288	1.00 31.27	С
ATOM	2336	N	GLU			45.366	37.084	27.648	1.00 32.28	N
ATOM	2337	CA	GLU	А	302	46.292	36.151	28.291	1.00 34.28	С
ATOM	2338	С			302	45.523	35.020	28.957	1.00 31.09	С
ATOM	2339	0			302	45.886	33.845	28.818	1.00 31.39	0
ATOM	2340	СВ			302	47.142	36.857	29.361	1.00 42.17	С
ATOM	2341	CG	GLU			47.630	38.262	29.012	1.00 55.68	С
ATOM	2342	CD	GLU		302	46.574	39.350	29.257	1.00 61.61	С
ATOM	2343	OE1	GLU		302	46.081	39.463	30.412	1.00 68.31	0
ATOM	2344	OE2	GLU		302	46.248	40.095	28.300	1.00 59.92	0
ATOM	2345	Ν	ALA			44.469	35.387	29.685	1.00 24.87	N
ATOM	2346	CA	ALA			43.638	34.424	30.390	1.00 23.75	С
ATOM	2347	С	ALA			42.914	33.500	29.415	1.00 25.07	С
ATOM	2348	0	ALA			42.889	32.284	29.615	1.00 27.32	0
ATOM	2349	СВ			303	42.642	35.143	31.279	1.00 25.09	С
ATOM	2350	N			304	42.373	34.076	28.339	1.00 23.12	N
ATOM	2351	CA			304	41.663	33.291	27.342	1.00 22.44	C
ATOM	2352	С	GLY			42.550	32.342	26.552	1.00 24.32	C
ATOM	2353	0	GLY		304	42.114	31.247	26.182	1.00 25.79	0
ATOM	2354	N	LEU			43.778	32.766	26.261	1.00 21.31	N
ATOM	2355	CA	LEU			44.715	31.927	25.520	1.00 23.11	C
ATOM	2356	С	LEU			45.208	30.768	26.374	1.00 23.15	C
ATOM	2357	0	LEU			45.386	29.651	25.886	1.00 22.55	0
ATOM	2358	CB	LEU			45.910	32.746	25.029	1.00 23.22	C
ATOM	2359	CG			305	45.668	33.775	23.925	1.00 22.87	C
ATOM	2360	CD1		A	305	46.938	34.582	23.721	1.00 20.99	C
ATOM	2361		LEU			45.251	33.082	22.642	1.00 19.00	C
ATOM	2362	N	ALA		306	45.417	31.042	27.657	1.00 24.36	N
ATOM	2363	CA	ALA			45.887	30.026	28.588	1.00 24.30	C
ATOM	2364	С	ALA			44.854	28.899	28.718	1.00 25.04	C
ATOM	2365	0	ALA			45.190	27.724	28.554	1.00 24.96	0
ATOM	2366	CB			306	46.190	30.663	29.944	1.00 21.48	C
ATOM	2367	N			307	43.590	29.260	28.945	1.00 25.27	N
ATOM	2368	CA			307	42.526	28.261	29.069	1.00 26.72	C
ATOM	2369	С			307	42.263 41.984	27.545	27.741 27.720	1.00 24.99	C
ATOM	2370	O			307 307	41.230	26.345 28.887		1.00 27.94	O C
ATOM	2371 2372	CB			307	40.606		29.610 28.648	1.00 27.12 1.00 34.58	
ATOM		OG N			308		29.715	26.633		0
ATOM ATOM	2373 2374	N CA			308	42.345 42.148	28.276 27.676	25.312	1.00 22.71 1.00 21.63	N C
ATOM	2374	C			308	43.265	26.652	25.019	1.00 21.03	C
ATOM	2376	0			308	43.203	25.599	24.415	1.00 24.17	0
ATOM	2377	CB			308	42.175	28.750	24.204	1.00 22.61	C
ATOM	2378	OG1	THR			41.130	29.698	24.204	1.00 21.39	0
ATOM	2379	CG2	THR			42.006	28.113	24.427	1.00 21.39	C
ATOM	2380	N			309	44.499	26.984	25.421	1.00 18.00	N
ATOM	2381	CA			309	45.642	26.094	25.209	1.00 24.10	C
ATOM	2382	C			309	45.445	24.826	26.031	1.00 24.30	C
ATOM	2383	0			309	45.786	23.729	25.597	1.00 24.68	0
111 011	2000	\circ		7.7	505	10.700	20.123	20.001	1.00 24.00	J

ATOM	2384	СВ	TYR	А	309	46.958	26.772	25.619	1.00	22.73	С
MOTA	2385	CG	TYR	А	309	48.192	25.916	25.344	1.00	21.35	С
MOTA	2386	CD1	TYR	Α	309	48.391	25.340	24.091	1.00	17.41	С
MOTA	2387	CD2	TYR	А	309	49.135	25.658	26.348	1.00	20.03	С
ATOM	2388	CE1	TYR	А	309	49.479	24.532	23.838	1.00	17.86	С
ATOM	2389	CE2	TYR		309	50.237	24.845	26.100	1.00	17.60	С
MOTA	2390	CZ	TYR			50.398	24.289	24.838		19.60	С
MOTA	2391	ОН	TYR		309	51.489	23.500	24.551	1.00	22.30	0
MOTA	2392	N	GLN			44.917	25.002	27.235	1.00	28.39	N
MOTA	2393	CA	GLN	А	310	44.649	23.902	28.141	1.00	31.72	С
MOTA	2394	С	GLN			43.661	22.951	27.479	1.00	32.49	С
MOTA	2395	0	GLN			43.833	21.732	27.527		34.18	0
ATOM	2396	СВ	GLN			44.067	24.445	29.445		36.90	С
ATOM	2397	CG	GLN		310	44.255	23.534	30.625		49.45	С
MOTA	2398	CD	GLN		310	45.682	23.035	30.724		57.63	С
ATOM	2399	OE1	GLN		310	45.914	21.845	30.934	1.00	63.33	0
ATOM	2400	NE2	GLN			46.649	23.935	30.527	1.00	58.16	N
ATOM	2401	N			311	42.645	23.518	26.832		31.23	N
ATOM	2402	CA	TRP			41.639	22.714	26.147		31.11	С
ATOM	2403	С	TRP			42.302	21.935	25.012		31.99	С
ATOM	2404	0	TRP			42.044	20.742	24.825		31.84	0
ATOM	2405	СВ	TRP			40.514	23.597	25.581		29.00	С
ATOM	2406	CG	TRP		311	39.420	22.793	24.916		29.42	С
ATOM	2407	CD1	TRP		311	38.335	22.231	25.531	1.00	26.67	С
ATOM	2408	CD2		А	311	39.338	22.408	23.531	1.00	27.15	С
ATOM	2409	NE1		Α	311	37.590	21.516	24.622	1.00	28.98	N
ATOM	2410	CE2		А	311	38.180	21.605	23.389	1.00	28.33	С
ATOM	2411	CE3	TRP			40.128	22.656	22.404	1.00	27.17	С
ATOM	2412	CZ2			311	37.793	21.048	22.164		26.56	С
ATOM	2413	CZ3	TRP			39.744	22.103	21.182		28.52	С
ATOM	2414	CH2	TRP			38.584	21.305	21.076		28.56	C
ATOM	2415	N	PHE			43.122	22.635	24.231		32.17	N
ATOM	2416	CA	PHE		312	43.831	22.028	23.118	1.00	29.55	С
ATOM	2417	С	PHE		312	44.671	20.835	23.584	1.00	30.34	С
ATOM	2418	0	PHE		312	44.729	19.812	22.905	1.00	27.47	0
ATOM	2419	CB			312	44.733	23.066	22.442	1.00	30.35	С
ATOM	2420	CG	PHE			45.645	22.478	21.420	1.00	31.04	С
ATOM	2421	CD1				45.151	22.092	20.177		32.20	С
ATOM	2422		PHE			46.980	22.229	21.726		31.50	С
ATOM	2423		PHE			45.970	21.457	19.251		31.85	С
ATOM	2424		PHE			47.813	21.597	20.811		31.01	С
ATOM	2425	CZ			312	47.309	21.208	19.571		31.64	C
ATOM	2426	N			313	45.323	20.979	24.738		33.12	N
ATOM	2427	CA			313	46.167	19.918	25.297		36.68	С
ATOM	2428	С			313	45.368	18.655	25.582		40.51	С
ATOM	2429	0			313	45.756	17.562	25.164		44.34	0
ATOM	2430	CB			313	46.884	20.385	26.572		29.25	С
ATOM	2431	CG	LEU		313	48.027	21.385	26.382		28.06	С
ATOM	2432					48.561	21.841	27.733		27.40	С
MOTA	2433	CD2				49.130	20.763	25.554		19.50	C
ATOM	2434 2435	N CA	GLU		314	44.227 43.383	18.811 17.668	26.245 26.569		42.01 45.91	N C
ATOM ATOM	2435	CA			314	43.383	17.084	25.370		46.34	C
ATOM	2436	0			314	42.000	16.033	25.494		49.20	0
ATOM	2437	CB			314	42.000	18.058	27.660		48.97	C
ATOM	2430	СБ СG	GLU			42.369	18.517	28.959		58.50	C
111 01.1	2400		0110	77	J + T	10.000	± U • J ± /	20.737	±•00	30.30	C

ATOM	2440	CD	GLU	Α	314	42.070	19.248	29.898	1.00	65.29	С
ATOM	2441	OE1	GLU	Α	314	40.900	19.485	29.507	1.00	68.83	0
ATOM	2442	OE2	GLU			42.486	19.604	31.027		67.52	0
ATOM	2443	N	ASN			42.713	17.722	24.205		45.61	N
ATOM	2444	CA	ASN			41.985	17.275	23.018			C
ATOM	2445	C	ASN			42.816	17.210	21.757	1.00	46.82	C
ATOM	2446	0	ASN			42.257	17.117	20.671	1.00		0
ATOM	2447	CB	ASN			40.833	18.242	22.724		42.66	C
ATOM	2448	CG	ASN			39.659	18.073	23.659		43.06	С
ATOM	2449	OD1	ASN			38.697	17.375	23.338		44.33	0
ATOM	2450	ND2	ASN	Α	315	39.705	18.751	24.800	1.00	42.34	N
ATOM	2451	N	GLN	Α	316	44.136	17.275	21.875	1.00	53.33	N
ATOM	2452	CA	GLN	Α	316	44.972	17.270	20.677	1.00	60.48	С
ATOM	2453	С	GLN	Α	316	44.847	16.048	19.781	1.00	65.81	С
ATOM	2454	0	GLN	Α	316	45.153	16.117	18.582	1.00	65.72	0
ATOM	2455	СВ	GLN			46.431	17.567	21.008	1.00	58.72	С
ATOM	2456	CG	GLN			47.050	16.665	22.027	1.00	59.42	C
ATOM	2457	CD			316	48.439	17.121	22.398	1.00	59.39	C
ATOM	2458	OE1	GLN			48.766	17.235	23.577	1.00		0
		NE2					17.398				
ATOM	2459		GLN			49.263		21.393		57.86	N
ATOM	2460	N	ASP			44.395	14.933	20.354		72.58	N
ATOM	2461	CA	ASP			44.205	13.718	19.570		78.11	С
ATOM	2462	С	ASP			42.824	13.766	18.929		78.14	С
ATOM	2463	0	ASP			41.931	12.985	19.253		79.55	0
MOTA	2464	CB	ASP	Α	317	44.406	12.456	20.420	1.00	83.78	С
ATOM	2465	CG	ASP	Α	317	45.880	12.032	20.501	1.00	90.58	С
ATOM	2466	OD1	ASP	Α	317	46.566	12.009	19.446	1.00	92.85	0
ATOM	2467	OD2	ASP	Α	317	46.355	11.724	21.619	1.00	93.50	0
ATOM	2468	N	ARG	Α	318	42.670	14.758	18.057	1.00	77.85	N
ATOM	2469	CA	ARG	Α	318	41.455	15.037	17.296	1.00	77.09	С
ATOM	2470	С	ARG			41.895	15.851	16.086	1.00	76.19	С
ATOM	2471	0	ARG			41.159	15.970	15.104		76.03	0
ATOM	2472	СВ	ARG		318	40.473	15.886	18.117	1.00	76.30	C
ATOM	2473	CG	ARG		318	39.757	15.143	19.231		77.09	C
ATOM	2474	CD	ARG			39.045	16.097	20.168	1.00	76.69	C
ATOM	2475		ARG			38.099	16.964	19.473	1.00	76.44	N
		NE									
ATOM	2476	CZ	ARG			36.947	17.378	19.993	1.00	77.01	C
ATOM	2477	NH1	ARG			36.592	17.000	21.214		75.98	N
ATOM	2478		ARG			36.155	18.184	19.297		78.64	N
ATOM	2479	Ν	PHE			43.111	16.396	16.171		74.90	N
ATOM	2480	CA	PHE			43.685	17.233	15.118		74.68	С
MOTA	2481	С	PHE			44.987	16.633	14.585		73.57	С
ATOM	2482	0	PHE	Α	319	45.745	16.001	15.327	1.00	74.47	0
ATOM	2483	CB	PHE	Α	319	43.944	18.652	15.664	1.00	71.17	С
ATOM	2484	CG	PHE	Α	319	42.801	19.217	16.485	1.00	64.60	С
ATOM	2485	CD1	PHE	Α	319	41.666	19.738	15.866	1.00	63.73	С
ATOM	2486	CD2	PHE	Α	319	42.856	19.211	17.876	1.00	64.05	С
ATOM	2487	CE1	PHE	Α	319	40.603	20.243	16.621		60.21	С
ATOM	2488		PHE			41.798	19.714	18.639		62.15	С
ATOM	2489	CZ	PHE			40.670	20.230	18.005		61.59	C
TER	2490	01	PHE			10.070	20.200	10.000	_,00	01.03	· ·
HETATM		0	НОН	7.7	3	16.295	46.079	6.392	1 00	15.94	0
HETATM		0	НОН		4	61.547	40.087	15.062		21.47	0
HETATM		0	НОН		5	36.997	37.687	25.554		20.65	0
HETATM		0	НОН		6	29.311	45.751	4.024		21.71	0
HETATM	∠495	0	НОН		7	21.568	46.184	9.524	1.00	17.42	0

HETATM	2496	0	НОН	8	11.536	47.975	2.432	1.00 26.37	0
HETATM	2497	0	НОН	9	29.177	46.219	1.236	1.00 23.00	0
HETATM	2498	0	НОН	10	40.741	27.136	4.780	1.00 29.07	0
HETATM	2499	0	НОН	11	40.083	37.386	25.112	1.00 30.44	0
HETATM	2500	0	НОН	12	13.825	45.146	5.953	1.00 17.36	0
HETATM		0	НОН	13	8.764	48.592	12.079	1.00 36.36	0
HETATM		0	НОН	14	55.979	44.436	15.015	1.00 26.20	0
HETATM		0	НОН	15	17.945	32.227	25.777	1.00 34.65	0
HETATM		0	НОН	16	40.926	42.199	21.708	1.00 31.59	0
HETATM		0	НОН	17	33.187	44.429	25.698	1.00 25.77	0
HETATM		0	НОН	18	40.247	42.372	14.227	1.00 24.45	0
HETATM		0	НОН	19	14.430	45.255	12.548	1.00 28.20	0
HETATM		0	НОН	20	21.688	49.677	2.624	1.00 23.50	0
HETATM		0	НОН	21	28.054	47.255	19.861	1.00 28.18	0
HETATM				22	55.199	38.799		1.00 28.18	
		0	НОН				30.164		0
HETATM		0	НОН	23	20.234	42.843	17.179	1.00 23.11	0
HETATM		0	НОН	24	18.239	41.853	13.537	1.00 21.21	0
HETATM		0	НОН	25	60.758	36.226	20.643	1.00 21.53	0
HETATM		0	НОН	26	61.569	26.338	23.229	1.00 26.57	0
HETATM		0	НОН	27	9.926	49.534	16.100	1.00 31.82	0
HETATM		0	НОН	28	4.971	38.969	16.395	1.00 58.26	0
HETATM		0	НОН	29	25.019	31.604	11.825	1.00 35.92	0
HETATM		0	НОН	30	24.673	36.093	29.361	1.00 32.95	0
HETATM		0	НОН	31	52.299	40.821	10.627	1.00 31.56	0
HETATM		0	HOH	32	28.536	50.378	18.662	1.00 24.70	0
HETATM	2521	0	HOH	33	24.699	31.415	8.283	1.00 38.66	0
HETATM	2522	0	НОН	34	53.324	32.853	8.901	1.00 33.39	0
HETATM	2523	0	HOH	35	9.000	27.913	0.990	1.00 51.52	0
HETATM	2524	0	HOH	36	49.740	45.752	20.701	1.00 56.50	0
HETATM	2525	0	НОН	37	28.174	26.898	16.118	1.00 34.01	0
HETATM	2526	0	НОН	38	48.784	49.103	12.468	1.00 43.68	0
HETATM	2527	0	НОН	39	27.576	50.871	29.931	1.00 79.74	0
HETATM	2528	0	HOH	40	14.732	37.684	20.129	1.00 27.80	0
HETATM	2529	0	HOH	41	58.826	26.495	28.976	1.00 29.36	0
HETATM	2530	0	НОН	42	30.099	29.222	27.240	1.00 39.08	0
HETATM	2531	0	НОН	43	59.276	29.042	11.210	1.00 36.07	0
HETATM	2532	0	НОН	44	40.967	29.091	19.406	1.00 23.83	0
HETATM		0	НОН	45	28.684	32.066	10.759	1.00 56.73	0
HETATM		0	НОН	46	27.472	20.923	21.939	1.00 29.43	0
HETATM		0	НОН	47	35.093	42.271	4.075	1.00 39.07	0
HETATM		0	НОН	48	39.685	54.782	10.814	1.00 54.88	0
HETATM		0	НОН	49	6.584	46.194	12.653	1.00 38.66	0
HETATM		0	НОН	50	47.795	26.586	29.308	1.00 38.50	0
HETATM		0	НОН	51	53.230	49.070	15.786	1.00 83.03	0
HETATM		0	НОН	52	57.060	36.335	24.327	1.00 35.42	0
HETATM		0	НОН	53	63.544	27.631	33.116	1.00 54.09	0
HETATM				54	60.753	38.995	18.699	1.00 49.59	0
		0	HOH						
HETATM		0	HOH	55 56	14.895	48.576	15.992	1.00 56.00	0
HETATM		0	HOH	56 57	33.004	53.450	11.866	1.00 38.52	0
HETATM		0	НОН	57	13.256	45.898	15.177	1.00 67.56	0
HETATM		0	НОН	58	1.760	40.226	5.411	1.00 72.60	0
HETATM		0	НОН	59	53.286	19.281	26.653	1.00 71.82	0
HETATM		0	НОН	60	49.908	29.058	30.131	1.00 44.71	0
HETATM		0	НОН	61	33.339	33.081	0.757	1.00 27.06	0
HETATM		0	НОН	62	20.133	49.587	6.300	1.00 62.11	0
HETATM	2551	0	НОН	63	36.171	34.415	14.160	1.00 58.33	0

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HETATM 2552 O HOH 64 31.038 22.208 24.497 1.00 81.57
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  HETATM 2553 O HOH 65
                                                                                            57.789 46.097 4.972 1.00100.00
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  HETATM 2554 O HOH 66
                                                                                               9.514 39.392 21.996 1.00 57.91
HETATM 2555 O HOH 67 13.056 15.987 15.463 1.00 71.44
HETATM 2556 O HOH 68 41.897 33.505 15.432 1.00 45.09
HETATM 2557 O HOH 69 55.565 43.726 5.895 1.00 34.28
HETATM 2558 O HOH 70 39.612 31.330 15.361 1.00 61.92
HETATM 2559 O HOH 71 44.907 38.858 10.949 1.00 87.38
HETATM 2560 O HOH 72 63.134 26.447 21.083 1.00 48.64
HETATM 2561 O HOH 73 42.581 49.438 8.669 1.00 69.28
HETATM 2562 O HOH 74 21.047 22.360 14.667 1.00 48.13
HETATM 2563 O HOH 75 63.710 36.536 22.148 1.00 41.62
HETATM 2564 O HOH 76 50.559 20.064 31.488 1.00 59.27
HETATM 2565 O HOH 77 54.997 22.252 23.878 1.00 42.51
HETATM 2566 O HOH 78 25.841 20.981 15.423 1.00 71.86
HETATM 2568 O HOH 80 10.522 42.067 25.960 1.00 73.56
HETATM 2569 O HOH 81 33.664 31.525 6.814 1.00 57.09
HETATM 2570 O HOH 82 37.020 42.162 13.423 1.00 58.93
MASTER 283 O 0 13 10 0 0 6.2569 1 0 25
  HETATM 2555 O HOH 67
                                                                                            13.056 15.987 15.463 1.00 71.44
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HEADER OXIDOREDUCTASE
                                               01-SEP-98 1FXS
TITLE
        GDP-FUCOSE SYNTHETASE FROM ESCHERICHIA COLI COMPLEX WITH
       2 NADP
COMPND MOL_ID: 1;
COMPND 2 MOLECULE: PROTEIN (GDP-FUCOSE SYNTHETASE);
COMPND 3 CHAIN: A;
COMPND 4 SYNONYM: WCAG, GDP-4-KETO 6-DEOXY-MANNOSE 3,5-EPIMERASE 4-
COMPND 5 REDUCTASE;
COMPND 6 ENGINEERED: YES
SOURCE MOL_ID: 1;
SOURCE 2 ORGANISM SCIENTIFIC: ESCHERICHIA COLI;
SOURCE 3 ORGANISM_COMMON: BACTERIA;
SOURCE 4 STRAIN: K12;
SOURCE 5 CELLULAR_LOCATION: CYTOPLASM;
SOURCE 6 GENE: WCAG;
SOURCE 7 EXPRESSION_SYSTEM: ESCHERICHIA COLI;
SOURCE 8 EXPRESSION SYSTEM COMMON: BACTERIA;
SOURCE 9 EXPRESSION SYSTEM STRAIN: BL-21;
SOURCE 10 EXPRESSION_SYSTEM_CELLULAR_LOCATION: CYTOPLASM;
SOURCE 11 EXPRESSION_SYSTEM_PLASMID: PSEWCAG;
SOURCE 12 EXPRESSION SYSTEM GENE: WCAG
KEYWDS EPIMERASE-REDUCTASE, NADP, GDP-FUCOSE, FUCOSE SYNTHETASE
EXPDTA X-RAY DIFFRACTION
AUTHOR W.S.SOMERS, M.L.STAHL, F.X.SULLIVAN
REVDAT 2 27-DEC-00 1FXS 1 COMPND SOURCE REMARK JRNL
REVDAT 1 26-AUG-99 1FXS
                            0
         AUTH W.S.SOMERS, M.L.STAHL, F.X.SULLIVAN
JRNL
JRNL
           TITL
                GDP-FUCOSE SYNTHETASE FROM ESCHERICHIA COLI:
JRNL
           TITL 2 STRUCTURE OF A UNIQUE MEMBER OF THE SHORT-CHAIN
          TITL 3 DEHYDROGENASE/REDUCTASE FAMILY THAT CATALYZES TWO
JRNL
          TITL 4 DISTINCT REACTIONS AT THE SAME ACTIVE SITE.
```

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```
REF STRUCTURE
                                     V. 6 1601 1998
JRNL
JRNL
         REFN ASTM STRUE6 UK ISSN 0969-2126
REMARK 1
REMARK 2
REMARK 2 RESOLUTION. 2.30 ANGSTROMS.
REMARK
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : X-PLOR 3.843
REMARK 3 AUTHORS
                     : BRUNGER
REMARK 3
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.30
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 14.00
REMARK 3 DATA CUTOFF (SIGMA(F)): 2.000
REMARK 3 DATA CUTOFF HIGH (ABS(F)): NULL REMARK 3 DATA CUTOFF LOW (ABS(F)): NULL
REMARK 3 COMPLETENESS (WORKING+TEST) (%): 96.3
REMARK 3 NUMBER OF REFLECTIONS
                                        : 20373
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD : NULL
REMARK 3 FREE R VALUE TEST SET SELECTION : NULL
REMARK 3 R VALUE (WORKING SET): 0.163
REMARK 3 FREE R VALUE : NULL
                                       (%) : NULL
REMARK 3 FREE R VALUE TEST SET SIZE
REMARK 3 FREE R VALUE TEST SET COUNT : NULL
          ESTIMATED ERROR OF FREE R VALUE : NULL
REMARK 3
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED
REMARK 3 BIN RESOLUTION RANGE HIGH
                                         (A) : NULL
REMARK 3 BIN RESOLUTION RANGE LOW (A): NULL
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%): NULL REMARK 3 REFLECTIONS IN BIN (WORKING SET): NULL
REMARK 3 BIN R VALUE (WORKING SET) : NULL REMARK 3 BIN FREE R VALUE : NULL
REMARK 3 BIN FREE R VALUE TEST SET SIZE (%): NULL
REMARK 3 BIN FREE R VALUE TEST SET COUNT : NULL
REMARK 3 ESTIMATED ERROR OF BIN FREE R VALUE : NULL
REMARK
        3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 PROTEIN ATOMS : 2498
REMARK 3 NUCLEIC ACID ATOMS
                                  : 0
REMARK 3 HETEROGEN ATOMS
                                  : 48
REMARK 3 SOLVENT ATOMS
                                  : 83
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2): NULL
REMARK 3 MEAN B VALUE (OVERALL, A**2): NULL
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A**2) : NULL
REMARK 3 B22 (A^{**}2) : NULL
REMARK 3 B33 (A**2) : NULL REMARK 3 B12 (A**2) : NULL REMARK 3 B13 (A**2) : NULL
REMARK 3 B23 (A**2) : NULL
```

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```
REMARK
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT (A): NULL
REMARK 3 ESD FROM SIGMAA
                                          (A) : NULL
REMARK 3 LOW RESOLUTION CUTOFF
                                           (A) : NULL
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A): NULL
REMARK 3 ESD FROM C-V SIGMAA
                                           (A) : NULL
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3 BOND LENGTHS (A): 0.008
REMARK 3 BOND ANGLES (DEGREES): 1.35
REMARK 3 DIHEDRAL ANGLES (DEGREES): NULL
REMARK 3 IMPROPER ANGLES (DEGREES): NULL
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL: NULL
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS.
                                                    RMS SIGMA
REMARK 3 MAIN-CHAIN BOND (A^{**}2): NULL ; NULL
REMARK 3 MAIN-CHAIN ANGLE
                                          (A**2) : NULL ; NULL
REMARK 3 SIDE-CHAIN BOND
                                           (A^{**}2) : NULL ; NULL
REMARK 3 SIDE-CHAIN ANGLE
                                           (A^{**}2) : NULL ; NULL
REMARK 3
REMARK 3 NCS MODEL: NULL
REMARK 3
REMARK 3 NCS RESTRAINTS. RMS SIGMA/WEIGHT REMARK 3 GROUP 1 POSITIONAL (A): NULL; NULL REMARK 3 GROUP 1 B-FACTOR (A**2): NULL; NULL
REMARK 3
REMARK 3 PARAMETER FILE 1 : PARHCSDX.PRO
REMARK 3 PARAMETER FILE 2 : NULL
REMARK 3 TOPOLOGY FILE 1 : TOPHCSDX.PRO REMARK 3 TOPOLOGY FILE 2 : NULL
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
REMARK 4
REMARK 4 1FXS COMPLIES WITH FORMAT V. 3.0, 1-DEC-2006
REMARK 4
        4 THIS IS THE REMEDIATED VERSION OF THIS PDB ENTRY.
REMARK
REMARK 4 REMEDIATED DATA FILE REVISION 3.100 (2007-03-17)
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB .
REMARK 100 THE RCSB ID CODE IS RCSB007309.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE
REMARK 200 EXPERIMENT TYPE : X-RAY DIFFRAREMARK 200 DATE OF DATA COLLECTION : 15-JUN-1997
                                           : X-RAY DIFFRACTION
REMARK 200 TEMPERATURE (KELVIN): 291.0
REMARK 200 PH
                                            : 7.00
REMARK 200 NUMBER OF CRYSTALS USED
                                           : 1
REMARK 200
REMARK 200 SYNCHROTRON (Y/N): N
REMARK 200 RADIATION SOURCE : ROTATING ANODE

DEMARK 200 REAMITME . NILL.
REMARK 200 BEAMLINE
                                           : NULL
REMARK 200 X-RAY GENERATOR MODEL : RIGAKU RU200
```

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```
REMARK 200 MONOCHROMATIC OR LAUE (M/L) : M
REMARK 200 WAVELENGTH OR RANGE
                                       (A) : 1.5418
REMARK 200 MONOCHROMATOR
                                            : NI FILTER
REMARK 200 OPTICS
                                              : MIRRORS
REMARK 200
REMARK 200 DETECTOR TYPE
REMARK 200 DETECTOR MANUFACTURER : RIGAKU RAXIS II
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : DENZO
REMARK 200 DATA SCALING SOFTWARE : SCALEPACK
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 20596
REMARK 200 RESOLUTION RANGE HIGH (A): 2.300 REMARK 200 RESOLUTION RANGE LOW (A): 14.000
REMARK 200 REJECTION CRITERIA (SIGMA(I)): 0.000
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%): 97.4
                                          : 7.900
REMARK 200 DATA REDUNDANCY
REMARK 200 R MERGE
                                          (I) : 0.06200
REMARK 200 R SYM
                                          (I) : NULL
REMARK 200 <I/SIGMA(I) > FOR THE DATA SET : 26.4000
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A) : 2.30
REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A): 2.38
REMARK 200 COMPLETENESS FOR SHELL (%): 81.0
REMARK 200 DATA REDUNDANCY IN SHELL
                                         : NULL
REMARK 200 R MERGE FOR SHELL (I): NULL REMARK 200 R SYM FOR SHELL (I): NULL
                                       (I) : NULL
REMARK 200 R SYM FOR SHELL
REMARK 200 <I/SIGMA(I) > FOR SHELL
                                             : 9.100
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MOLECULAR REPLACEMENT
REMARK 200 SOFTWARE USED: NULL
REMARK 200 STARTING MODEL: 1GFS
REMARK 200
REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
REMARK 280 SOLVENT CONTENT, VS (%): 62.17
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): 3.25
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: 4.0 M SODIUM FORMATE, PH 7
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 32 2 1
REMARK 290
REMARK 290 SYMOP SYMMETRY
REMARK 290 NNNMMM OPERATOR
REMARK 290 1555 X,Y,Z
REMARK 290 2555 -Y,X-Y,2/3+Z
REMARK 290 3555 -X+Y,-X,1/3+Z
REMARK 290 4555 Y,X,-Z
REMARK 290 5555 X-Y,-Y,1/3-Z
REMARK 290 6555 -X,-X+Y,2/3-Z
REMARK 290
                SYMOP
                         SYMMETRY
REMARK 290
```

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```
REMARK 290 WHERE NNN -> OPERATOR NUMBER
 REMARK 290
                              MMM -> TRANSLATION VECTOR
 REMARK 290
 REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
 REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
 REMARK 290 RELATED MOLECULES.
REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000
                                                                                                                     0.00000

        REMARK 290
        SMTRY2
        1
        0.000000
        1.000000
        0.000000
        0.00000

        REMARK 290
        SMTRY3
        1
        0.000000
        0.000000
        1.000000
        0.00000

        REMARK 290
        SMTRY1
        2
        -0.500000
        -0.500000
        0.000000
        0.00000

        REMARK 290
        SMTRY3
        2
        0.000000
        0.000000
        1.000000
        50.06667

        REMARK 290
        SMTRY1
        3
        -0.500000
        0.866025
        0.000000
        0.00000

        REMARK 290
        SMTRY2
        3
        -0.866025
        -0.500000
        0.000000
        0.00000

        REMARK 290
        SMTRY3
        3
        0.000000
        0.000000
        1.000000
        25.03333

        REMARK 290
        SMTRY1
        4
        -0.500000
        0.866025
        0.000000
        0.00000

        REMARK 290
        SMTRY2
        4
        0.866025
        0.500000
        0.000000
        0.00000

REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000
                                                                                                                   0.00000
REMARK 290 SMTRY2 4 0.866025 0.500000 0.000000
                                                                                                                   0.00000

      REMARK 290
      SMTRY2
      4
      0.866025
      0.500000
      0.000000
      0.00000

      REMARK 290
      SMTRY3
      4
      0.000000
      0.000000
      -1.000000
      0.00000

      REMARK 290
      SMTRY1
      5
      1.000000
      0.000000
      0.000000
      0.00000

      REMARK 290
      SMTRY3
      5
      0.000000
      -1.000000
      0.00000
      25.03333

      REMARK 290
      SMTRY1
      6
      -0.500000
      -0.866025
      0.000000
      0.00000

      REMARK 290
      SMTRY2
      6
      -0.866025
      0.500000
      0.000000
      0.00000

      REMARK 290
      SMTRY3
      6
      0.000000
      0.000000
      -1.000000
      50.06667

REMARK 290
 REMARK 290 REMARK: NULL
 REMARK 300
REMARK 300 BIOMOLECULE: 1
 REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT
 REMARK 300 WHICH CONSISTS OF 1 CHAIN(S). SEE REMARK 350 FOR
REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).
REMARK 350
REMARK 350 GENERATING THE BIOMOLECULE
REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN
REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE
REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS
 REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND
REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.
 REMARK 350
 REMARK 350 BIOMOLECULE: 1
 REMARK 350 APPLY THE FOLLOWING TO CHAINS: A
 REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000 0.000000
 REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000
 REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000
REMARK 350 BIOMT1 2 -0.500000 0.866025 0.000000 REMARK 350 BIOMT2 2 -0.866025 -0.500000 0.000000 REMARK 350 BIOMT3 2 0.000000 0.000000 1.000000
                                                                                                                 52.10000
                                                                                                                 90.23985
REMARK 465
REMARK 465 MISSING RESIDUES
 REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
 REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
 REMARK 465 IDENTIFIER; SSSEQ=SEQUENCE NUMBER; I=INSERTION CODE.)
 REMARK 465
 REMARK 465 M RES C SSSEQI
 REMARK 465 MET A 1
```

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```
REMARK 465 SER A
REMARK 465
             ARG A 320
REMARK 465
             GLY A 321
REMARK 470
REMARK 470 MISSING ATOM
REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS (M=MODEL NUMBER;
REMARK 470 RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER;
REMARK 470 I=INSERTION CODE):
REMARK 470 M RES CSSEQI ATOMS
REMARK 470 ARG A 45 CG CD NE CZ NH1 NH2
REMARK 470 ARG A 55 CG CD NE CZ NH1 NH2 REMARK 470 HIS A 174 CG ND1 CD2 CE1 NE2
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND ANGLES
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X,I3,1X,A3,1X,A1,I4,A1,3(1X,A4,2X),12X,F5.1)
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1 ATM2 ATM3
REMARK 500 VAL A 32 N - CA - C ANGL. DEV. = -8.1 DEGREES
            TYR A 60 N - CA - C ANGL. DEV. = -8.2 DEGREES
REMARK 500
REMARK 500 LYS A 65 N - CA - C ANGL. DEV. = -9.6 DEGREES
REMARK 500 ASP A 98 N - CA - C ANGL. DEV. = 11.6 DEGREES
REMARK 500 VAL A 99 N - CA - C ANGL. DEV. = -9.0 DEGREES
REMARK 500 LEU A 240 N - CA - C ANGL. DEV. = -8.6 DEGREES REMARK 500 GLY A 279 N - CA - C ANGL. DEV. = -8.2 DEGREES
REMARK 500 ASP A 286 N - CA - C ANGL. DEV. =-10.9 DEGREES
REMARK 500 GLY A 294 N - CA - C ANGL. DEV. = 8.3 DEGREES
REMARK 525
REMARK 525 SOLVENT
REMARK 525 THE FOLLOWING SOLVENT MOLECULES LIE FARTHER THAN EXPECTED
REMARK 525 FROM THE PROTEIN OR NUCLEIC ACID MOLECULE AND MAY BE
REMARK 525 ASSOCIATED WITH A SYMMETRY RELATED MOLECULE (M=MODEL
REMARK 525 NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE
REMARK 525 NUMBER; I=INSERTION CODE):
REMARK 525
REMARK 525 M RES CSSEQI
           HOH 20 DISTANCE = 5.45 ANGSTROMS
HOH 27 DISTANCE = 6.02 ANGSTROMS
HOH 76 DISTANCE = 5.15 ANGSTROMS
REMARK 525
REMARK 525
REMARK 525
REMARK 900
REMARK 900 RELATED ENTRIES
REMARK 900 RELATED ID: 1BSV RELATED DB: PDB
DBREF 1FXS A 1 321 UNP P32055 FCL_ECOLI
SEQRES 1 A 321 MET SER LYS GLN ARG VAL PHE ILE ALA GLY HIS ARG GLY
SEORES
        2 A 321 MET VAL GLY SER ALA ILE ARG ARG GLN LEU GLU GLN ARG
SEQRES 3 A 321 GLY ASP VAL GLU LEU VAL LEU ARG THR ARG ASP GLU LEU
```

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```
4 A
            321 ASN LEU LEU ASP SER ARG ALA VAL HIS ASP PHE PHE ALA
SEORES
        5 A
                 SER GLU ARG ILE ASP GLN VAL TYR LEU ALA ALA ALA LYS
SEQRES
            321
SEORES
            321
                 VAL GLY GLY ILE VAL ALA ASN ASN THR TYR PRO ALA ASP
SEQRES
      7 A
            321 PHE ILE TYR GLN ASN MET MET ILE GLU SER ASN ILE ILE
      8 A
SEQRES
            321 HIS ALA ALA HIS GLN ASN ASP VAL ASN LYS LEU LEU PHE
            321
SEORES
        9 A
                 LEU GLY SER SER CYS ILE TYR PRO LYS LEU ALA LYS GLN
SEQRES 10 A
            321
                 PRO MET ALA GLU SER GLU LEU LEU GLN GLY THR LEU GLU
SEQRES 11 A 321 PRO THR ASN GLU PRO TYR ALA ILE ALA LYS ILE ALA GLY
SEQRES 12 A 321
                 ILE LYS LEU CYS GLU SER TYR ASN ARG GLN TYR GLY ARG
SEORES 13 A 321 ASP TYR ARG SER VAL MET PRO THR ASN LEU TYR GLY PRO
SEORES 14 A 321 HIS ASP ASN PHE HIS PRO SER ASN SER HIS VAL ILE PRO
SEQRES 15 A
            321 ALA LEU LEU ARG ARG PHE HIS GLU ALA THR ALA GLN ASN
      16 A
            321
                 ALA PRO ASP VAL VAL VAL TRP GLY SER GLY THR PRO MET
SEQRES
      17 A
            321 ARG GLU PHE LEU HIS VAL ASP ASP MET ALA ALA SER
SEORES
SEQRES 18 A 321 ILE HIS VAL MET GLU LEU ALA HIS GLU VAL TRP LEU GLU
SEORES 19 A 321 ASN THR GLN PRO MET LEU SER HIS ILE ASN VAL GLY THR
SEORES 20 A 321 GLY VAL ASP CYS THR ILE ARG GLU LEU ALA GLN THR ILE
SEQRES 21 A 321 ALA LYS VAL VAL GLY TYR LYS GLY ARG VAL VAL PHE ASP
SEQRES 22 A 321 ALA SER LYS PRO ASP GLY THR PRO ARG LYS LEU LEU ASP
SEORES 23 A 321 VAL THR ARG LEU HIS GLN LEU GLY TRP TYR HIS GLU ILE
SEQRES 24 A 321 SER LEU GLU ALA GLY LEU ALA SER THR TYR GLN TRP PHE
SEQRES 25 A 321 LEU GLU ASN GLN ASP ARG PHE ARG GLY
             350
HET
    NAP
                     48
          NAP NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE
HETNAM
          NAP 2'-MONOPHOSPHOADENOSINE 5'-DIPHOSPHORIBOSE
HETSYN
        2 NAP
                 C21 H28 N7 O17 P3
FORMUL
FORMUL
        3
          HOH
                *83(H2 O)
HELIX
        1
           1 MET A
                     14 GLU A
                                 24
                                                                      11
        2
                     44 SER A
                                 53
                                    1
                                                                      10
HELIX
            2 SER A
HELIX
        3
           3 ILE A
                     69 THR A
                                 74
                                                                       6
HELIX
           4 PRO A
                     76 GLN A
                                96
                                                                      21
HELIX
        5
           5 SER A 108
                        ILE A 110
                                                                       3
                    121
HELIX
        6
            6 GLU A
                        GLU A 123
                                    5
                                                                       3
HELIX
        7
            7 GLU A
                    134
                         TYR A 154
                                                                      21
HELIX
       8
            8 VAL A
                    180 ALA A 193
                                                                      14
HELIX
       9
           9 VAL A 214
                        GLU A 226
                                                                      13
       10 10 HIS A 229
HELIX
                         GLU A 234
                                                                       6
HELIX
       11
          11 ILE A 253 VAL A 264
                                                                      12
HELIX
       12
          12 THR A 288
                        GLN A 292
                                                                       5
       13
           13 LEU A 301 ASN A 315
                                                                      15
HELIX
            A 6 VAL A 29 VAL A 32
                                    0
SHEET
        1
SHEET
        2
            A 6 GLN A
                      4
                         ALA A
                                9
                                    1 N GLN A
                                                 4
                                                     O GLU A
                                                               30
        3
            A 6 GLN A 58 LEU A 61
                                    1 N GLN A 58
                                                     O PHE A
                                                               7
SHEET
                                                     O VAL A 59
SHEET
        4
            A 6 LYS A 101 LEU A 105
                                    1 N LYS A 101
SHEET
        5
            A 6 ASP A 157 PRO A 163
                                    1 N ASP A 157
                                                     0
                                                        LEU A 102
SHEET
            A 6 ILE A 243 VAL A 245
                                       N ILE A 243
                                                        MET A 162
        6
                                    1
                                                     0
SHEET
            B 2 ASN A 165 TYR A 167
                                    0
        1
            B 2 PHE A 211 HIS A 213
SHEET
        2
                                    1
                                       N LEU A 212
                                                     O ASN A 165
SHEET
        1
            C 2 ASP A 198 TRP A 202 0
SHEET
            C 2 ARG A 269 ASP A 273 1 N ARG A 269 O VAL A 199
        2
       1 GLN A 117 PRO A 118 0 -0.48
CRYST1 104.200 104.200 75.100 90.00 90.00 120.00 P 32 2 1
          1.000000 0.000000 0.000000
                                       0.00000
ORIGX1
           0.000000 1.000000 0.000000
ORIGX2
                                             0.00000
           0.000000 0.000000 1.000000
ORIGX3
                                            0.00000
SCALE1
           0.009597 0.005541 0.000000
                                            0.00000
```

SCALE2		0.000			.011082	0.00000		0.00000			
SCALE3		0.000			.000000	0.01331		0.00000			
ATOM	1	N	LYS		3	8.487	27.148	31.421		63.40	N
ATOM	2	CA	LYS	А	3	9.876	26.784	30.998		64.12	С
ATOM	3	С	LYS	А	3	10.123	26.960	29.491	1.00	62.14	С
ATOM	4	0	LYS	Α	3	9.596	26.207	28.663	1.00	63.12	0
ATOM	5	СВ	LYS	Α	3	10.209	25.345	31.410	1.00	63.30	С
ATOM	6	CG	LYS	Α	3	11.601	24.904	30.986	1.00	65.64	С
ATOM	7	CD	LYS		3	11.930	23.504	31.457	1.00		С
ATOM	8	CE	LYS		3	12.032	23.446	32.969	1.00	68.66	C
ATOM	9	NZ	LYS		3	12.494	22.114	33.436	1.00	68.32	N
ATOM	10	N	GLN		4	10.966	27.935	29.161	1.00		N
	11	CA				11.335	28.262	27.787	1.00	50.73	C
ATOM			GLN		4						
ATOM	12	С	GLN		4	11.960	27.099	27.012	1.00		С
ATOM	13	0	GLN		4	12.878	26.447	27.503	1.00		0
ATOM	14	СВ	GLN		4	12.330	29.422	27.816		52.26	С
ATOM	15	CG	GLN		4	11.912	30.612	26.999		60.91	С
ATOM	16	CD	GLN	Α	4	10.526	31.083	27.352	1.00	60.94	С
ATOM	17	OE1	GLN	Α	4	9.737	31.427	26.475	1.00	61.53	0
ATOM	18	NE2	GLN	Α	4	10.211	31.084	28.640	1.00	64.63	N
ATOM	19	N	ARG	Α	5	11.448	26.819	25.817	1.00	40.42	N
ATOM	20	CA	ARG	Α	5	12.013	25.759	24.980	1.00	39.41	С
ATOM	21	С	ARG		5	12.883	26.397	23.894	1.00		С
ATOM	22	0	ARG	А	5	12.381	27.038	22.963		33.66	0
ATOM	23	СВ	ARG		5	10.917	24.879	24.380		40.90	C
ATOM	24	CG	ARG		5	10.458	23.784	25.326		45.44	C
ATOM	25	CD	ARG		5	9.205	23.068	24.835		49.33	C
						9.378					
ATOM	26	NE	ARG		5		22.341	23.571	1.00	49.18	N
ATOM	27	CZ	ARG		5	10.061	21.208	23.429	1.00		C
ATOM	28	NH1	ARG		5	10.669	20.651	24.471	1.00		N
MOTA	29		ARG		5	10.074	20.593	22.254		45.39	N
ATOM	30	N	VAL		6	14.196	26.225	24.047	1.00		N
ATOM	31	CA	VAL	А	6	15.199	26.797	23.149		30.13	С
ATOM	32	С	VAL	Α	6	15.863	25.834	22.146		32.01	С
MOTA	33	0	VAL	Α	6	16.380	24.777	22.519	1.00	30.46	0
MOTA	34	СВ	VAL	Α	6	16.303	27.485	23.989	1.00	26.37	С
ATOM	35	CG1	VAL	Α	6	17.334	28.144	23.102	1.00	25.95	С
ATOM	36	CG2	VAL	Α	6	15.683	28.494	24.928	1.00	25.81	С
ATOM	37	N	PHE	А	7	15.820	26.204	20.867	1.00	29.50	N
ATOM	38	CA	PHE	А	7	16.464	25.423	19.813	1.00	27.71	С
ATOM	39	С	PHE		7	17.772	26.109	19.450		26.98	С
ATOM	40	0	PHE		7	17.769	27.258	19.022		26.41	0
ATOM	41	СВ	PHE		7	15.599	25.345	18.549		25.44	C
ATOM	42	CG	PHE		7	16.301	24.703	17.361		25.97	C
ATOM	43		PHE		, 7	17.029	23.521	17.506		26.12	C
ATOM	44		PHE		7	16.213	25.272	16.090		26.33	C
											C
ATOM	45		PHE		7	17.653	22.913	16.404		23.00	
ATOM	46		PHE		7	16.836	24.670	14.982		26.47	C
ATOM	47	CZ	PHE		7	17.554	23.489	15.143		24.03	C
ATOM	48	N	ILE		8	18.888	25.421	19.674		27.51	N
MOTA	49	CA	ILE		8	20.199	25.949	19.311		25.96	С
ATOM	50	С	ILE		8	20.622	25.187	18.062		24.40	С
ATOM	51	0	ILE	А	8	20.908	23.992	18.122		25.95	0
ATOM	52	СВ	ILE	А	8	21.260	25.752	20.426	1.00	27.76	С
ATOM	53	CG1	ILE	Α	8	20.782	26.380	21.740	1.00	24.65	С
ATOM	54		ILE		8	22.587	26.399	19.997		25.19	С

ATOM	55	CD1	ILE	А	8	21.715	26.149	22.916	1.00 24.58	С
ATOM	56	N	ALA	Α	9	20.537	25.856	16.915	1.00 23.86	N
ATOM	57	CA	ALA	Α	9	20.914	25.250	15.646	1.00 23.91	С
ATOM	58	С	ALA	Α	9	22.436	25.243	15.597	1.00 25.26	С
MOTA	59	0	ALA	Α	9	23.066	26.246	15.931	1.00 29.18	0
ATOM	60	СВ	ALA	Α	9	20.338	26.060	14.476	1.00 23.77	С
ATOM	61	N	GLY	Α	10	23.018	24.111	15.205	1.00 24.45	N
ATOM	62	CA	GLY	Α	10	24.467	23.993	15.140	1.00 19.77	С
ATOM	63	С	GLY		10	25.076	23.976	16.525	1.00 21.75	С
ATOM	64	0	GLY		10	26.091	24.617	16.766	1.00 25.26	0
ATOM	65	N	HIS		11	24.470	23.209	17.426	1.00 23.30	N
ATOM	66	CA	HIS		11	24.922	23.117	18.815	1.00 26.87	С
MOTA	67	С	HIS		11	26.283	22.435	19.022	1.00 28.63	С
MOTA	68	0	HIS	А	11	26.849	22.515	20.111	1.00 29.23	0
MOTA	69	СВ	HIS		11	23.850	22.430	19.670	1.00 25.79	С
ATOM	70	CG	HIS		11	23.600	21.007	19.281	1.00 29.13	С
ATOM	71	ND1	HIS		11	24.017	19.941	20.052	1.00 30.95	N
ATOM	72	CD2			11	23.049	20.473	18.166	1.00 25.65	С
ATOM	73	CE1			11	23.740	18.814	19.422	1.00 28.73	С
ATOM	74	NE2			11	23.154	19.109	18.275	1.00 32.29	N
ATOM	75	Ν	ARG		12	26.781	21.750	17.994	1.00 30.60	N
ATOM	76	CA	ARG		12	28.078	21.074	18.049	1.00 34.16	С
ATOM	77	С	ARG		12	29.245	21.980	17.646	1.00 33.44	C
ATOM	78	0	ARG		12	30.390	21.684	17.970	1.00 35.90	0
ATOM	79	СВ	ARG		12	28.079	19.842	17.143	1.00 41.07	С
ATOM	80	CG	ARG		12	27.237	18.709	17.654	1.00 52.66	С
ATOM	81	CD	ARG		12	27.836	18.176	18.941	1.00 69.04	С
ATOM	82	ΝE	ARG		12	26.872	17.398	19.709	1.00 82.49	N
ATOM	83	CZ	ARG		12	26.402	16.206	19.346	1.00 89.00	С
ATOM	84	NH1	ARG		12	26.820	15.631	18.218	1.00 88.81	N
ATOM	85	NH2			12	25.515	15.585	20.120	1.00 89.02	N
ATOM	86	N	GLY		13	28.957	23.054	16.909	1.00 30.63	N
MOTA	87	CA	GLY		13 13	29.997	23.973	16.477	1.00 24.58	С
MOTA	88	C	GLY		13	30.610	24.751 24.638	17.623 18.766	1.00 26.60 1.00 28.64	С
MOTA	89	0	GLY		14	30.165 31.617	25.566	17.317		0
ATOM ATOM	90 91	N CA	MET MET		14	32.300	26.360	18.334	1.00 27.74 1.00 28.60	N C
ATOM	92	C	MET		14	31.382	27.304	19.110	1.00 28.82	C
ATOM	93	0	MET		14	31.337	27.250	20.343	1.00 28.32	0
ATOM	94	CB	MET		14	33.464	27.256	17.720	1.00 29.63	C
ATOM	95	CG	MET		14	34.218	28.007	18.749	1.00 25.05	C
ATOM	96	SD	MET		14	35.713	28.823	18.144	1.00 33.11	S
ATOM	97	CE	MET		14	35.028	29.897	16.836	1.00 33.20	C
ATOM	98	И	VAL		15	30.683	28.183	18.387	1.00 30.91	N
ATOM	99	CA	VAL		15	29.772	29.155	19.004	1.00 28.96	C
ATOM	100	C	VAL		15	28.511	28.472	19.554	1.00 29.06	C
ATOM	101	0	VAL		15	28.062	28.781	20.663	1.00 27.35	0
ATOM	102	СВ	VAL		15	29.370	30.282	18.004	1.00 27.93	C
ATOM	103		VAL		15	28.572	31.361	18.714	1.00 27.54	C
ATOM	104		VAL		15	30.601	30.892	17.385	1.00 27.34	C
ATOM	105	N	GLY		16	27.957	27.544	18.773	1.00 23.24	N
ATOM	106	CA	GLY		16	26.769	26.826	19.186	1.00 26.50	C
ATOM	107	C	GLY		16	26.952	26.104	20.507	1.00 28.70	C
ATOM	108	0	GLY		16	26.117	26.238	21.407	1.00 25.18	0
ATOM	109	N	SER		17	28.063	25.374	20.634	1.00 27.75	N
ATOM	110	CA	SER		17	28.361	24.616	21.846	1.00 26.57	C
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ATOM	111	С	SER	A	17	28.598	25.515	23.049	1.00 26	6.36	С
ATOM	112	0	SER	А	17	28.277	25.138	24.173		7.07	0
ATOM	113	СВ	SER	Α	17	29.558	23.685	21.629	1.00 26	6.69	С
ATOM	114	OG	SER	Α	17	30.779	24.391	21.606	1.00 30	0.87	0
ATOM	115	N	ALA	А	18	29.140	26.708	22.807	1.00 26	6.00	N
ATOM	116	CA	ALA	А	18	29.402	27.665	23.879		3.88	С
ATOM	117	С	ALA		18	28.095	28.178	24.462		6.48	С
ATOM	118	0	ALA		18	27.979	28.362	25.670		3.83	0
ATOM	119	СВ	ALA		18	30.229	28.823	23.362		5.30	С
ATOM	120	N	ILE		19	27.123	28.440	23.589		7.39	N
ATOM	121	CA	ILE		19	25.809	28.913	24.014		6.17	С
ATOM	122	С	ILE		19	25.152	27.800	24.819		7.69	C
ATOM	123	0		A	19	24.626	28.041	25.906		9.16	0
ATOM	124	СВ	ILE		19	24.939	29.331	22.802		2.71	С
ATOM	125	CG1	ILE		19	25.498	30.632	22.216		5.48	C
ATOM	126	CG2	ILE		19	23.480	29.528	23.212		6.93	C
ATOM	127	CD1	ILE		19	24.930	31.015	20.877	1.00 24		C
ATOM	128	N	ARG		20	25.264	26.575	24.312	1.00 29		N
ATOM	129	CA	ARG		20	24.715	25.394	24.964		1.82	C
ATOM	130	C	ARG		20	25.292	25.180	26.373		3.23	С
	131				20	24.542		27.319		6.14	
ATOM	132	0 CB	ARG		20	24.945	24.963			1.23	0 C
ATOM		CB	ARG				24.157	24.090 24.591			
ATOM	133	CG	ARG		20	24.235 25.172	22.922 21.994			9.38	С
ATOM	134	CD	ARG		20			25.331		7.85	C
ATOM	135	NE	ARG		20	25.660	20.935	24.452		3.10	N
ATOM	136	CZ	ARG		20	25.114	19.719	24.366		3.70	С
ATOM	137	NH1	ARG		20	24.063	19.407	25.118		2.38	N
ATOM	138		ARG		20	25.591	18.820	23.500		2.60	N
ATOM	139	N	ARG		21	26.611	25.272	26.517		1.88	N
ATOM	140	CA	ARG		21	27.253	25.084	27.813		0.90	С
ATOM	141	С	ARG		21	26.657	26.000	28.854		2.92	С
ATOM	142	0	ARG		21	26.454	25.592	29.994		6.60	0
ATOM	143	CB	ARG		21	28.757	25.342	27.727		9.44	С
ATOM	144	CG	ARG		21	29.573	24.121	27.351		9.28	С
ATOM	145	CD	ARG		21	31.040	24.482	27.171	1.00 27		С
ATOM	146	NE	ARG		21	31.401	24.573	25.761		2.10	N
ATOM	147	CZ	ARG		21	32.087	25.573	25.220		1.29	С
ATOM	148	NH1	ARG		21	32.494	26.588	25.966		2.74	Ν
ATOM	149		ARG		21	32.384	25.545	23.927	1.00 44		Ν
ATOM	150	N	GLN		22	26.358	27.230	28.454	1.00 34		Ν
ATOM	151	CA	GLN		22	25.792	28.209	29.368	1.00 38		С
ATOM	152	С	GLN		22	24.306	28.107	29.639	1.00 39		С
ATOM	153	0	GLN		22	23.852	28.486	30.717	1.00 41		0
ATOM	154	СВ	GLN		22	26.125	29.616	28.919	1.00 38		С
ATOM	155	CG	GLN		22	27.342	30.147	29.600	1.00 46		С
ATOM	156	CD	GLN		22	27.751	31.471	29.054	1.00 49		С
ATOM	157	OE1	GLN		22	28.820	31.601	28.450	1.00 51		0
ATOM	158	NE2	GLN		22	26.900	32.474	29.246	1.00 53		N
ATOM	159	Ν	LEU		23	23.541	27.644	28.657	1.00 39		N
ATOM	160	CA	LEU		23	22.103	27.506	28.849	1.00 42		С
ATOM	161	С	LEU		23	21.787	26.209	29.578	1.00 45		С
ATOM	162	0	LEU		23	20.742	26.076	30.218	1.00 49		0
ATOM	163	СВ	LEU		23	21.340	27.583	27.519	1.00 35		С
ATOM	164	CG	LEU		23	21.235	28.959	26.855	1.00 31		С
ATOM	165		LEU		23	20.319	28.877	25.649	1.00 28		С
ATOM	166	CD2	LEU	А	23	20.716	29.986	27.839	1.00 30	0.44	С

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ATOM	167	Ν	GLU	Α	24	22.711	25.262	29.504	1.00	47.58	N
ATOM	168	CA	GLU	Α	24	22.536	23.985	30.172	1.00	52.68	С
ATOM	169	С	GLU	Α	24	22.616	24.192	31.681	1.00	56.15	С
ATOM	170	0	GLU		24	21.979	23.477	32.448	1.00		0
ATOM	171	CB	GLU		24	23.626	23.030	29.724	1.00		С
ATOM	172	CG	GLU	Α	24	23.158	21.618	29.556	1.00	59.84	С
ATOM	173	CD	GLU	Α	24	24.010	20.874	28.559	1.00	65.73	С
ATOM	174	OE1	GLU		24	25.259	20.942	28.672		67.44	0
		OE2						27.649		64.22	
ATOM	175		GLU		24	23.426	20.243				0
ATOM	176	Ν	GLN		25	23.374	25.209	32.086	1.00		N
ATOM	177	CA	GLN	Α	25	23.573	25.552	33.490	1.00	64.65	С
ATOM	178	С	GLN	Α	25	22.440	26.399	34.091	1.00	66.53	С
ATOM	179	0	GLN	Α	25	22.684	27.354	34.832		67.62	0
ATOM	180	СВ	GLN		25	24.922	26.260	33.655	1.00		C
ATOM	181	CG	GLN		25	26.102	25.438	33.149		75.36	С
ATOM	182	CD	GLN		25	27.421	26.198	33.194	1.00		С
ATOM	183	OE1	GLN	Α	25	28.181	26.088	34.158	1.00	85.20	0
ATOM	184	NE2	GLN	Α	25	27.704	26.965	32.142	1.00	82.69	N
ATOM	185	N	ARG	Α	26	21.204	26.071	33.723	1.00	65.48	N
ATOM	186	CA	ARG		26	20.017	26.753	34.234	1.00		С
	187	CA			26			33.829		66.35	C
ATOM			ARG			18.754	26.009				
ATOM	188	0	ARG		26	18.551	25.667	32.660		66.55	0
ATOM	189	СВ	ARG	Α	26	19.962	28.236	33.841	1.00	64.01	С
ATOM	190	CG	ARG	Α	26	20.498	28.589	32.474	1.00	58.50	С
ATOM	191	CD	ARG	Α	26	20.481	30.094	32.289	1.00	53.26	С
ATOM	192	NE	ARG		26	19.156	30.572	31.906		50.26	N
ATOM	193	CZ	ARG		26	18.925	31.721	31.276	1.00		C
ATOM	194	NH1			26	19.927	32.536	30.963	1.00		Ν
ATOM	195	NH2	ARG	Α	26	17.695	32.021	30.887	1.00		N
ATOM	196	N	GLY	Α	27	17.924	25.743	34.830	1.00	67.14	N
ATOM	197	CA	GLY	Α	27	16.703	24.990	34.629	1.00	66.67	С
ATOM	198	С	GLY		27	15.467	25.718	34.160		67.07	С
ATOM	199	0	GLY		27	14.415	25.086	34.016		67.80	0
					28						
ATOM	200	N	ASP			15.558	27.030	33.954	1.00		N
ATOM	201	CA	ASP		28	14.398	27.790	33.476		63.83	С
ATOM	202	С	ASP	Α	28	14.294	27.695	31.954	1.00	60.13	С
ATOM	203	0	ASP	Α	28	13.424	28.315	31.332	1.00	59.17	0
ATOM	204	СВ	ASP	Α	28	14.463	29.255	33.935	1.00	65.76	С
ATOM	205	CG	ASP		28	15.684	29.994	33.408	1.00		С
ATOM	206		ASP		28	16.791	29.410	33.371	1.00		0
ATOM	207		ASP		28	15.532	31.179	33.044	1.00		0
ATOM	208	N	VAL		29	15.156	26.852	31.387	1.00		N
ATOM	209	CA	VAL	Α	29	15.248	26.627	29.953	1.00	49.86	С
ATOM	210	С	VAL	Α	29	15.367	25.137	29.639	1.00	45.70	С
ATOM	211	0	VAL	Α	29	16.089	24.403	30.311	1.00	47.16	0
ATOM	212	СВ	VAL		29	16.505	27.362	29.379	1.00		С
ATOM	213		VAL		29	16.740	27.000	27.915	1.00		C
ATOM	214		VAL		29	16.364	28.877	29.551	1.00		С
ATOM	215	N	GLU		30	14.662	24.704	28.603	1.00		N
ATOM	216	CA	GLU	А	30	14.714	23.319	28.158	1.00		С
ATOM	217	С	GLU	Α	30	15.267	23.332	26.732	1.00	41.67	С
ATOM	218	0	GLU		30	14.700	23.983	25.854	1.00		0
ATOM	219	СВ	GLU		30	13.321	22.700	28.168	1.00		C
ATOM	220	CG	GLU		30	13.345	21.181	28.182	1.00		C
ATOM	221	CD	GLU		30	12.023	20.565	27.769	1.00		С
ATOM	222	OE1	GLU	А	30	10.957	21.088	28.177	1.00	14.43	0

ATOM	223	OE2	GLU	А	30	12.059	19.556	27.026	1.00	72.56	С
ATOM	224	N	LEU	Α	31	16.360	22.608	26.503	1.00	37.30	N
ATOM	225	CA	LEU	Α	31	17.004	22.573	25.187	1.00	36.28	C
ATOM	226	С	LEU	Α	31	16.512	21.515	24.197	1.00	35.15	C
ATOM	227	0	LEU	Α	31	16.341	20.355	24.546	1.00	38.27	С
ATOM	228	СВ	LEU	Α	31	18.524	22.433	25.347	1.00	35.30	C
MOTA	229	CG	LEU	Α	31	19.265	23.504	26.152	1.00	33.95	C
MOTA	230	CD1	LEU	Α	31	20.724	23.146	26.221	1.00	36.67	C
MOTA	231	CD2	LEU	Α	31	19.089	24.871	25.521	1.00	34.28	C
MOTA	232	N	VAL	Α	32	16.290	21.936	22.955	1.00	35.40	N
MOTA	233	CA	VAL	Α	32	15.859	21.042	21.877	1.00	33.71	С
MOTA	234	С	VAL	А	32	17.044	21.060	20.918	1.00	35.27	C
ATOM	235	0	VAL	А	32	17.361	22.098	20.342	1.00	39.30	С
ATOM	236	CB	VAL	А	32	14.592	21.582	21.152	1.00	34.09	С
ATOM	237	CG1	VAL	А	32	14.138	20.612	20.071	1.00	24.09	С
ATOM	238	CG2	VAL		32	13.475	21.842	22.159	1.00	30.79	С
ATOM	239	N	LEU	А	33	17.737	19.935	20.792	1.00	33.80	N
ATOM	240	CA	LEU		33	18.912	19.874	19.933	1.00	31.98	С
ATOM	241	С	LEU		33	18.820	18.761	18.908	1.00	34.10	С
ATOM	242	0	LEU	А	33	18.281	17.692	19.183	1.00	34.99	С
ATOM	243	СВ	LEU		33	20.171	19.694	20.785	1.00	31.75	С
ATOM	244	CG	LEU		33	20.308	20.581	22.033	1.00	32.80	С
MOTA	245	CD1	LEU		33	21.498	20.135	22.844	1.00	32.76	С
MOTA	246	CD2	LEU		33	20.437	22.054	21.674	1.00	31.95	С
MOTA	247	N	ARG		34	19.373	19.012	17.728	1.00	33.18	N
MOTA	248	CA	ARG		34	19.358	18.042	16.642	1.00	36.23	С
MOTA	249	С	ARG		34	20.704	18.064	15.946	1.00	38.91	С
MOTA	250	0	ARG		34	21.229	19.135	15.655	1.00	39.68	С
ATOM	251	СВ	ARG		34	18.266	18.408	15.629	1.00	36.62	С
ATOM	252	CG	ARG		34	17.111	17.421	15.517	1.00	43.02	С
ATOM	253	CD	ARG		34	16.639	16.976	16.883	1.00	43.26	С
ATOM	254	NE	ARG		34	15.210	16.692	16.935	1.00	41.07	N
ATOM	255	CZ	ARG		34	14.483	16.790	18.040	1.00	40.15	C
ATOM	256	NH1	ARG		34	15.055	17.156	19.176	1.00	40.05	N
ATOM	257	NH2	ARG		34	13.182	16.560	18.004	1.00	38.40	N
ATOM	258	N	THR		35	21.286	16.891	15.722	1.00	39.34	N
ATOM	259	CA	THR		35	22.561	16.814	15.021	1.00	39.88	C
ATOM	260	C	THR		35	22.268	16.906	13.522 13.108	1.00	40.93	C
ATOM	261	0	THR		35	21.107	16.840			41.06	C
ATOM	262	CB	THR		35	23.295	15.492	15.315		37.28	C
ATOM	263	OG1	THR		35	22.505 23.553	14.390 15.347	14.851 16.799		39.72 33.47	O
ATOM	264 265	CG2	THR ARG		35 36	23.316	17.067	12.713		41.22	C
ATOM ATOM	266	N CA	ARG		36	23.310	17.170	11.263		40.45	N C
	267	CA	ARG		36	22.514	15.901	10.700		40.79	C
ATOM ATOM	268	0	ARG		36	21.789	15.937	9.686		41.30	C
ATOM	269	CB	ARG		36	24.494	17.410	10.585		40.81	C
ATOM	270	CG	ARG		36	24.392	17.332	9.071		43.89	C
ATOM	271	CD	ARG		36	25.777	17.139	8.462		45.83	C
ATOM	272	NE	ARG		36	26.619	18.322	8.611		41.89	N
ATOM	273	CZ	ARG		36	26.729	19.276	7.685		43.10	C
ATOM	274		ARG		36	26.028	19.185	6.548		42.99	N
ATOM	275		ARG		36	27.599	20.269	7.842		42.79	N
ATOM	276	N	ASP		37	22.794	14.767	11.346		43.22	N
ATOM	277	CA	ASP		37	22.208	13.493	10.910		45.76	C
ATOM	278	C	ASP		37	20.751	13.369	11.304		43.44	C
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ATOM	279	0	ASP	A	37	19.992	12.645	10.631	1.00	44.61	0
ATOM	280	СВ	ASP	Α	37	22.994	12.319	11.484	1.00	53.52	С
ATOM	281	CG	ASP	Α	37	24.402	12.244	10.911	1.00	61.50	С
ATOM	282	OD1	ASP	Α	37	24.549	12.480	9.656	1.00	63.84	0
ATOM	283	OD2	ASP	Α	37	25.362	12.000	11.714	1.00	65.56	0
ATOM	284	N	GLU	Α	38	20.356	14.036	12.387	1.00	41.47	N
ATOM	285	CA	GLU	Α	38	18.974	14.010	12.834	1.00	39.44	С
ATOM	286	С	GLU	Α	38	18.136	15.023	12.048	1.00	40.40	С
ATOM	287	0	GLU	А	38	16.958	14.785	11.760	1.00	40.80	0
ATOM	288	СВ	GLU	А	38	18.883	14.337	14.317	1.00	40.92	С
ATOM	289	CG	GLU	А	38	19.534	13.328	15.223	1.00	46.92	С
ATOM	290	CD	GLU	А	38	19.369	13.697	16.679	1.00	50.62	С
ATOM	291	OE1	GLU	А	38	18.353	13.296	17.276	1.00	54.72	0
ATOM	292	OE2	GLU	А	38	20.238	14.406	17.226	1.00	54.70	0
ATOM	293	N	LEU	А	39	18.754	16.150	11.696	1.00	37.00	N
ATOM	294	CA	LEU		39	18.054	17.192	10.966		32.52	С
ATOM	295	С	LEU		39	18.992	17.960	10.047		31.79	С
ATOM	296	0	LEU		39	19.871	18.687	10.502		30.32	0
ATOM	297	СВ	LEU	А	39	17.379	18.157	11.949		29.99	С
ATOM	298	CG	LEU		39	16.615	19.368	11.400		29.67	С
ATOM	299	CD1	LEU		39	15.371	18.928	10.669	1.00	27.65	С
ATOM	300	CD2			39	16.255	20.306	12.533	1.00	28.61	С
ATOM	301	N	ASN		40	18.833	17.755	8.747		32.66	N
ATOM	302	CA	ASN		40	19.642	18.468	7.775		32.42	С
ATOM	303	С	ASN		40	18.978	19.825	7.545		30.60	С
ATOM	304	0	ASN		40	17.899	19.908	6.949		28.46	0
ATOM	305	СВ	ASN		40	19.726	17.691	6.465		34.33	С
ATOM	306	CG	ASN		40	20.550	18.411	5.423		38.78	C
ATOM	307		ASN		40	21.311	19.330	5.742		36.89	0
ATOM	308		ASN		40	20.393	18.012	4.164		40.62	N
ATOM	309	N	LEU		41	19.638	20.881	8.011		29.38	N
ATOM	310	CA	LEU		41	19.129	22.245	7.902		26.76	С
ATOM	311	С	LEU		41	18.984	22.788	6.486		25.30	С
ATOM	312	0	LEU		41	18.339	23.808	6.275		23.63	0
ATOM	313	СВ	LEU		41	19.972	23.187	8.763		22.95	С
ATOM	314	CG	LEU		41	19.982	22.850	10.256		23.40	С
ATOM	315	CD1	LEU		41	20.890	23.791	10.994		23.36	С
ATOM	316	CD2	LEU		41	18.585	22.937	10.825		23.16	С
ATOM	317	N	LEU	А	42	19.560	22.096	5.510		27.05	N
ATOM	318	CA	LEU	А	42	19.454	22.522	4.114		30.49	С
ATOM	319	С	LEU	А	42	18.129	22.075	3.502		32.85	С
ATOM	320	0	LEU	А	42	17.715	22.572	2.451	1.00	33.73	0
ATOM	321	СВ	LEU		42	20.604	21.954	3.283		28.79	С
ATOM	322	CG	LEU		42	22.006	22.451	3.615		33.56	С
ATOM	323	CD1	LEU		42	23.011	21.830	2.672		33.63	С
ATOM	324		LEU		42	22.030	23.956	3.483		34.71	С
ATOM	325	N	ASP		43	17.480	21.124	4.167		34.26	N
ATOM	326	CA	ASP	А	43	16.205	20.581	3.715	1.00	35.53	С
ATOM	327	С	ASP		43	15.028	21.380	4.295	1.00	33.52	С
ATOM	328	0	ASP		43	14.714	21.251	5.481		32.16	0
ATOM	329	СВ	ASP		43	16.113	19.108	4.143		39.69	С
ATOM	330	CG	ASP		43	14.958	18.344	3.477		40.84	С
ATOM	331		ASP		43	14.136	18.921	2.723		41.94	0
ATOM	332		ASP		43	14.886	17.126	3.717		43.40	0
ATOM	333	N	SER		44	14.363	22.164	3.441		32.69	N
ATOM	334	CA	SER		44	13.210	22.983	3.842		34.65	С

ATOM	335	С	SER	А	44	12.104	22.184	4.534	1.00 32.14	С
ATOM	336	0	SER	А	44	11.693	22.538	5.637	1.00 32.99	0
ATOM	337	СВ	SER	Α	44	12.606	23.703	2.632	1.00 34.63	С
ATOM	338	OG	SER	А	44	13.570	24.483	1.956	1.00 45.59	0
ATOM	339	N	ARG	Α	45	11.626	21.123	3.873	1.00 31.45	N
ATOM	340	CA	ARG	Α	45	10.558	20.259	4.400	1.00 31.71	С
ATOM	341	С	ARG	А	45	10.927	19.695	5.770	1.00 29.48	С
ATOM	342	0	ARG	А	45	10.145	19.779	6.712	1.00 31.13	0
ATOM	343	СВ	ARG	А	45	10.239	19.120	3.405	1.00 28.75	С
ATOM	344	N	ALA	А	46	12.151	19.190	5.890	1.00 29.28	N
ATOM	345	CA	ALA	А	46	12.638	18.638	7.147	1.00 28.44	С
MOTA	346	С	ALA	А	46	12.593	19.701	8.241	1.00 29.87	С
ATOM	347	0	ALA	А	46	12.109	19.448	9.351	1.00 32.21	0
ATOM	348	CB	ALA	А	46	14.056	18.125	6.975	1.00 28.03	С
ATOM	349	N	VAL	А	47	13.073	20.900	7.913	1.00 29.43	N
ATOM	350	CA	VAL	А	47	13.092	22.011	8.868	1.00 28.97	С
ATOM	351	С	VAL	А	47	11.679	22.458	9.279	1.00 30.28	С
ATOM	352	0	VAL	А	47	11.414	22.666	10.465	1.00 28.91	0
ATOM	353	CB	VAL	А	47	13.917	23.217	8.319	1.00 27.52	С
ATOM	354	CG1	VAL	А	47	13.905	24.389	9.305	1.00 24.49	С
ATOM	355	CG2	VAL	А	47	15.347	22.785	8.061	1.00 22.11	С
ATOM	356	N	HIS	А	48	10.777	22.603	8.308	1.00 31.17	N
ATOM	357	CA	HIS	А	48	9.405	23.010	8.613	1.00 34.04	С
MOTA	358	С	HIS	А	48	8.693	21.939	9.435	1.00 34.25	С
ATOM	359	0	HIS	А	48	7.948	22.258	10.357	1.00 34.13	0
ATOM	360	CB	HIS	А	48	8.634	23.345	7.332	1.00 33.07	С
ATOM	361	CG	HIS	Α	48	8.975	24.693	6.763	1.00 41.08	С
ATOM	362	ND1	HIS	Α	48	10.154	24.947	6.096	1.00 41.25	N
ATOM	363	CD2	HIS	Α	48	8.297	25.866	6.784	1.00 42.73	С
ATOM	364	CE1	HIS	Α	48	10.189	26.217	5.731	1.00 38.92	С
ATOM	365	NE2	HIS	Α	48	9.075	26.797	6.137	1.00 38.73	N
ATOM	366	N	ASP	А	49	8.970	20.670	9.133	1.00 37.03	N
ATOM	367	CA	ASP	А	49	8.373	19.560	9.866	1.00 36.26	С
ATOM	368	С	ASP	А	49	8.811	19.581	11.314	1.00 36.70	С
ATOM	369	0	ASP	Α	49	7.998	19.369	12.215	1.00 38.51	0
ATOM	370	CB	ASP	А	49	8.754	18.226	9.239	1.00 41.07	С
ATOM	371	CG	ASP	Α	49	7.932	17.906	8.006	1.00 47.20	С
ATOM	372	OD1	ASP	А	49	6.981	18.665	7.701	1.00 49.28	0
MOTA	373	OD2	ASP	А	49	8.239	16.892	7.340	1.00 50.40	0
ATOM	374	N	PHE	А	50	10.099	19.835	11.528	1.00 31.65	N
MOTA	375	CA	PHE	А	50	10.655	19.911	12.866	1.00 30.48	С
MOTA	376	С	PHE	А	50	9.999	21.054	13.655	1.00 31.59	С
MOTA	377	0	PHE	А	50	9.603	20.870	14.800	1.00 34.67	0
ATOM	378	СВ	PHE	А	50	12.181	20.095	12.787	1.00 27.87	С
MOTA	379	CG	PHE	А	50	12.803	20.619	14.054	1.00 31.67	С
ATOM	380	CD1	PHE	Α	50	13.067	19.767	15.127	1.00 34.11	С
MOTA	381	CD2	PHE	А	50	13.094	21.978	14.194	1.00 32.79	С
MOTA	382		PHE		50	13.612	20.265	16.327	1.00 33.70	С
ATOM	383	CE2	PHE	А	50	13.635	22.486	15.387	1.00 33.68	С
ATOM	384	CZ	PHE	А	50	13.893	21.628	16.452	1.00 33.53	С
ATOM	385	N	PHE	А	51	9.868	22.226	13.039	1.00 33.60	И
ATOM	386	CA	PHE	А	51	9.269	23.375	13.719	1.00 33.81	С
ATOM	387	С	PHE	А	51	7.783	23.186	14.001	1.00 35.57	С
ATOM	388	0	PHE	А	51	7.230	23.778	14.938	1.00 33.66	0
ATOM	389	СВ	PHE	А	51	9.514	24.664	12.931	1.00 31.59	С
ATOM	390	CG	PHE	А	51	10.805	25.363	13.290	1.00 30.83	С

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MOTA

ATOM	447	CA	VAL	A	59	16.028	30.011	18.338	1.00	19.83	С
ATOM	448	С	VAL		59	17.356	30.774	18.299		21.62	С
ATOM	449	0	VAL		59	17.380	32.008	18.180	1.00	20.82	0
ATOM	450	СВ	VAL		59	15.487	29.977	16.889		19.02	С
ATOM	451		VAL		59	16.564	29.466	15.921		18.14	С
ATOM	452	CG2			59	14.255	29.110	16.797		18.15	С
ATOM	453	N	TYR		60	18.451	30.043	18.485		21.34	Ν
ATOM	454	CA	TYR		60	19.788	30.619	18.386		20.10	С
ATOM	455	С	TYR		60	20.324	30.016	17.102	1.00	18.62	С
ATOM	456	0	TYR		60	20.582	28.817	17.038		19.19	0
ATOM	457	СВ	TYR		60	20.677	30.224	19.562	1.00	20.05	С
ATOM	458	CG	TYR		60	20.440	31.033	20.811	1.00	19.50	С
ATOM	459	CD1	TYR		60	19.437	30.677	21.709	1.00	24.78	C
ATOM	460	CD2	TYR		60	21.234	32.138	21.115		20.63	С
ATOM	461	CE1	TYR		60	19.224	31.399	22.881		23.69	С
ATOM	462	CE2	TYR		60	21.035	32.868	22.290	1.00	21.28	С
ATOM	463	CZ	TYR		60	20.022	32.490	23.167	1.00	24.58	С
ATOM	464	OH	TYR		60	19.787	33.204	24.323	1.00	25.10	0
ATOM	465	N	LEU		61	20.409	30.835	16.059	1.00	20.28	Ν
ATOM	466	CA	LEU		61	20.882	30.376	14.757	1.00	23.69	С
ATOM	467	С	LEU		61	22.407	30.421	14.688	1.00	21.61	С
ATOM	468	0	LEU		61	22.997	31.398	14.214	1.00	21.00	0
ATOM	469	СВ	LEU		61	20.211	31.207	13.641		21.87	С
ATOM	470	CG	LEU		61	20.425	30.877	12.157		28.27	С
ATOM	471	CD1	LEU		61	20.833	29.433	11.955	1.00	30.54	С
ATOM	472	CD2			61	19.170	31.221	11.351	1.00	21.23	С
ATOM	473	N	ALA	Α	62	23.031	29.357	15.198	1.00	20.69	Ν
ATOM	474	CA	ALA	Α	62	24.494	29.229	15.231	1.00	21.09	С
ATOM	475	С	ALA	Α	62	25.024	28.217	14.214	1.00	21.30	С
ATOM	476	0	ALA	А	62	26.197	27.861	14.241	1.00	24.79	0
ATOM	477	СВ	ALA	А	62	24.973	28.870	16.639	1.00	13.23	С
ATOM	478	N	ALA	Α	63	24.152	27.738	13.335	1.00	20.79	Ν
ATOM	479	CA	ALA	А	63	24.556	26.797	12.297	1.00	24.19	С
ATOM	480	С	ALA	Α	63	25.030	27.582	11.074		23.98	С
ATOM	481	0	ALA	А	63	24.412	28.574	10.679	1.00	24.88	0
ATOM	482	СВ	ALA	А	63	23.394	25.882	11.912	1.00	18.90	С
ATOM	483	N	ALA	А	64	26.120	27.121	10.471	1.00	22.11	Ν
ATOM	484	CA	ALA	А	64	26.687	27.760	9.294	1.00	22.13	С
ATOM	485	С	ALA	Α	64	27.793	26.927	8.673	1.00	24.40	С
ATOM	486	0	ALA	А	64	28.284	25.965	9.266	1.00	23.16	0
ATOM	487	CB	ALA	Α	64	27.230	29.146	9.656	1.00	16.74	С
ATOM	488	N	LYS		65	28.126	27.279	7.437	1.00	24.29	N
ATOM	489	CA	LYS		65	29.198	26.658	6.681		25.21	С
ATOM	490	С	LYS	Α	65	30.318	27.675	6.848		26.03	С
ATOM	491	0	LYS	А	65	30.287	28.743	6.248	1.00	25.99	0
ATOM	492	СВ	LYS	А	65	28.812	26.514	5.206		28.28	С
ATOM	493	CG	LYS	А	65	29.956	26.182	4.262		32.11	С
ATOM	494	CD	LYS	Α	65	30.421	24.768	4.436	1.00	33.93	С
ATOM	495	CE	LYS	А	65	31.413	24.431	3.352	1.00	37.43	С
ATOM	496	NZ	LYS	Α	65	31.724	22.987	3.337	1.00	43.68	Ν
MOTA	497	N	VAL	А	66	31.245	27.364	7.752		28.19	Ν
ATOM	498	CA	VAL	А	66	32.385	28.223	8.095		26.36	С
ATOM	499	С	VAL	А	66	33.740	27.643	7.649		27.04	С
ATOM	500	0	VAL	А	66	33.904	26.436	7.553		30.28	0
ATOM	501	СВ	VAL		66	32.390	28.449	9.617		25.74	С
MOTA	502	CG1	VAL	А	66	33.577	29.276	10.040	1.00	34.01	С

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503 CG2 VAL A 66 31.096 29.124 10.030 1.00 26.90 34.703 28.516 7.379 1.00 25.30 36.006 28.056 6.949 1.00 26.51 37.043 6.938 29.162 1.00 28.34 36.751 30.309 7.282 1.00 28.11 38.270 28.787 6.573 1.00 27.43 39.371 29.725 6.505 1.00 23.64 39.565 30.287 5.111 1.00 22.82 38.765 30.042 4.219 1.00 26.25 40.655 31.024 4.925 1.00 25.72 41.012 31.658 3.662 1.00 24.89 2.442 1.00 22.61 40.979 30.732 1.427 1.00 22.34 40.371 31.066 42.377 32.371 3.818 1.00 30.00 42.183 33.595 4.715 1.00 31.07 42.952 32.773 2.476 1.00 31.20 43.460 34.277 5.135 1.00 40.18 41.589 29.557 2.557 1.00 23.14 41.610 28.584 1.459 1.00 22.04 40.196 1.129 1.00 23.01 28.067 39.782 28.056 -0.036 1.00 22.01 42.564 27.377 1.780 1.00 20.23 42.474 26.290 0.694 1.00 16.38 44.001 27.862 1.894 1.00 17.14 39.450 27.686 2.164 1.00 19.81 1.984 1.00 21.25 38.103 27.157 1.274 1.00 20.54 37.166 28.139 36.507 27.785 0.291 1.00 24.36 37.525 26.732 3.334 1.00 18.71 37.144 29.378 1.754 1.00 20.84 36.297 30.422 1.176 1.00 22.51 36.603 30.743 -0.277 1.00 21.99 -1.020 1.00 25.71 35.703 31.111 2.020 1.00 23.31 36.357 31.695 35.495 31.608 3.268 1.00 25.17 31.179 35.952 4.331 1.00 27.44 34.241 32.016 3.144 1.00 22.39 37.870 30.628 -0.675 1.00 21.11 38.258 30.883 -2.062 1.00 20.84 38.146 29.633 -2.935 1.00 21.79 38.059 29.730 -4.159 1.00 24.98 39.687 31.403 -2.137 1.00 20.70 39.795 32.881 -1.833 1.00 23.84 39.264 33.726 -2.566 1.00 26.45 40.517 33.210 -0.761 1.00 23.01 38.182 28.463 -2.305 1.00 20.74 -3.028 1.00 21.46 38.096 27.193 26.711 -3.236 1.00 21.04 36.655 36.322 26.193 -4.301 1.00 18.01 38.912 26.094 -2.310 1.00 22.88 26.550 40.258 -2.143 1.00 20.75 38.908 -3.113 1.00 19.72 24.791 35.796 26.922 -2.237 1.00 21.00 -2.325 1.00 20.99 34.397 26.499 TYR A 75 34.397 26.499 -2.325 1.00 20.99 TYR A 75 33.414 27.670 -2.179 1.00 20.75 TYR A 75 32.477 27.593 -1.388 1.00 21.89

ATOM	559	СВ	TYR	А	75	34.103	25.473	-1.224	1.00 22.51	С
ATOM	560	CG	TYR	Α	75	35.128	24.372	-1.102	1.00 25.35	С
ATOM	561	CD1	TYR	Α	75	35.091	23.263	-1.947	1.00 27.72	С
ATOM	562	CD2	TYR	А	75	36.137	24.440	-0.146	1.00 27.31	С
ATOM	563	CE1	TYR	Α	75	36.034	22.244	-1.845	1.00 30.92	С
ATOM	564	CE2	TYR	Α	75	37.088	23.425	-0.033	1.00 30.18	С
ATOM	565	CZ	TYR	А	75	37.027	22.332	-0.885	1.00 33.55	С
ATOM	566	OH	TYR	Α	75	37.946	21.318	-0.775	1.00 38.78	0
ATOM	567	N	PRO	А	76	33.587	28.750	-2.958	1.00 18.60	N
ATOM	568	CA	PRO	А	76	32.668	29.887	-2.838	1.00 16.60	С
ATOM	569	С	PRO	А	76	31.170	29.569	-2.996	1.00 17.23	С
MOTA	570	0	PRO	А	76	30.348	30.056	-2.210	1.00 19.43	0
ATOM	571	СВ	PRO		76	33.193	30.864	-3.898	1.00 18.79	С
ATOM	572	CG	PRO	А	76	33.874	29.975	-4.903	1.00 18.85	С
ATOM	573	CD	PRO		76	34.591	29.003	-4.009	1.00 17.13	С
ATOM	574	N	ALA		77	30.814	28.765	-3.998	1.00 17.35	N
ATOM	575	CA	ALA		77	29.420	28.376	-4.205	1.00 17.77	С
ATOM	576	С	ALA		77	28.808	27.684	-2.974	1.00 20.30	С
ATOM	577	0	ALA		77	27.690	28.006	-2.578	1.00 22.25	0
ATOM	578	СВ	ALA		77	29.302	27.493	-5.403	1.00 15.82	С
ATOM	579	N	ASP		78	29.548	26.768	-2.350	1.00 20.44	N
ATOM	580	CA	ASP		78	29.057	26.062	-1.163	1.00 20.70	С
ATOM	581	С	ASP		78	28.806	27.018	-0.011	1.00 20.38	С
ATOM	582	0	ASP		78	27.859	26.847	0.752	1.00 19.14	0
ATOM	583	СВ	ASP		78	30.064	25.014	-0.674	1.00 22.48	С
ATOM	584	CG	ASP		78	30.332	23.919	-1.691	1.00 27.38	С
ATOM	585	OD1	ASP		78	29.670	23.874	-2.757	1.00 28.69	0
ATOM	586		ASP		78	31.228	23.092	-1.413	1.00 32.93	0
ATOM	587	N	PHE		79	29.699	27.992	0.135	1.00 20.45	N
ATOM	588	CA	PHE		79	29.608	28.979	1.206	1.00 22.62	С
ATOM	589	С		A	79	28.444	29.950	1.080	1.00 21.98	C
ATOM	590	0	PHE		79	27.789	30.254	2.076	1.00 23.46	0
ATOM	591	CB	PHE		79	30.927	29.736	1.368	1.00 22.85	C
ATOM	592	CG	PHE		79	31.955	28.987	2.172	1.00 23.24	C
ATOM	593	CD1	PHE		79	32.809	28.079	1.565	1.00 22.28	C
ATOM	594		PHE		79	32.072	29.199	3.540	1.00 22.11	C
ATOM	595	CE1	PHE		79	33.763	27.394	2.312	1.00 22.89	С
ATOM	596			A	79 70	33.023	28.520	4.291	1.00 21.46	С
ATOM	597	CZ	PHE		79	33.870	27.616	3.677	1.00 18.34	C
ATOM	598	N	ILE		80	28.188	30.458	-0.122	1.00 17.01	N
ATOM	599	CA	ILE		80	27.057 25.734	31.354	-0.271 -0.268	1.00 17.16 1.00 17.59	C
ATOM	600 601	C 0	ILE		80 80	24.801	30.557 30.906	0.454	1.00 17.39	C
ATOM ATOM	602	CB	ILE		80	27.171	32.269	-1.531	1.00 13.27	0 C
	603	CG1	ILE		80	26.022	33.295	-1.519	1.00 17.13	C
ATOM ATOM	604		ILE		80	27.213	31.428	-2.818	1.00 10.30	C
ATOM	605		ILE		80	26.121	34.403	-2.553	1.00 14.62	C
ATOM	606	N	TYR		81	25.684	29.448	-1.007	1.00 14.02	N
ATOM	607	CA	TYR		81	24.469	28.646	-1.077	1.00 16.53	C
ATOM	608	C	TYR		81	24.000	28.032	0.234	1.00 17.95	C
ATOM	609	0	TYR		81	22.848	28.199	0.626	1.00 20.44	0
ATOM	610	CB	TYR		81	24.586	27.545	-2.130	1.00 20.44	C
ATOM	611	CG	TYR		81	23.375	26.629	-2.152	1.00 21.92	C
ATOM	612	CD1	TYR		81	22.217	26.993	-2.841	1.00 21.06	C
ATOM	613		TYR		81	23.367	25.416	-1.443	1.00 21.92	C
ATOM	614		TYR		81	21.085	26.188	-2.827	1.00 20.40	C
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ATOM	615	CE2	TYR	А	81	22.229	24.598	-1.423	1.00 22.42	С
ATOM	616	CZ	TYR	А	81	21.095	24.997	-2.121	1.00 20.93	С
ATOM	617	ОН	TYR	Α	81	19.968	24.213	-2.120	1.00 27.29	0
ATOM	618	N	GLN	А	82	24.879	27.297	0.896	1.00 17.27	N
ATOM	619	CA	GLN	Α	82	24.512	26.635	2.139	1.00 18.48	С
ATOM	620	С	GLN	Α	82	24.118	27.591	3.238	1.00 19.52	С
ATOM	621	0	GLN	Α	82	23.222	27.295	4.021	1.00 21.45	0
ATOM	622	CB	GLN	А	82	25.625	25.697	2.611	1.00 20.06	С
ATOM	623	CG	GLN	А	82	25.739	24.443	1.761	1.00 19.94	С
ATOM	624	CD	GLN	А	82	26.926	23.588	2.125	1.00 20.90	С
ATOM	625	OE1	GLN	А	82	27.575	23.021	1.256	1.00 27.31	0
ATOM	626	NE2	GLN	А	82	27.222	23.497	3.407	1.00 20.61	N
ATOM	627	N	ASN	А	83	24.793	28.730	3.320	1.00 18.42	N
ATOM	628	CA	ASN	А	83	24.439	29.695	4.345	1.00 16.95	С
ATOM	629	С	ASN	Α	83	23.114	30.382	4.024	1.00 18.39	С
ATOM	630	0	ASN	А	83	22.293	30.593	4.923	1.00 20.25	0
ATOM	631	CB	ASN	А	83	25.578	30.671	4.612	1.00 16.28	С
ATOM	632	CG	ASN		83	26.707	30.019	5.405	1.00 25.04	С
ATOM	633	OD1	ASN	А	83	26.515	29.607	6.552	1.00 25.51	0
ATOM	634	ND2	ASN	Α	83	27.871	29.872	4.780	1.00 23.34	N
ATOM	635	N	MET		84	22.870	30.658	2.742	1.00 18.90	N
ATOM	636	CA	MET	А	84	21.609	31.266	2.335	1.00 20.07	С
ATOM	637	С	MET		84	20.450	30.314	2.656	1.00 19.78	С
ATOM	638	0	MET		84	19.469	30.732	3.267	1.00 20.03	0
ATOM	639	СВ	MET		84	21.614	31.610	0.850	1.00 18.82	С
ATOM	640	CG	MET		84	22.160	33.005	0.526	1.00 19.79	С
ATOM	641	SD	MET		84	22.231	33.287	-1.266	1.00 24.22	S
ATOM	642	CE	MET		84	20.512	33.344	-1.713	1.00 18.46	С
ATOM	643	N	MET		85	20.590	29.031	2.306	1.00 19.18	N
ATOM	644	CA	MET		85	19.535	28.045	2.573	1.00 20.30	С
ATOM	645	С	MET		85	19.279	27.817	4.047	1.00 20.01	С
ATOM	646	0	MET		85	18.129	27.825	4.461	1.00 21.88	0
ATOM	647	СВ	MET		85	19.811	26.708	1.891	1.00 19.65	С
ATOM	648	CG	MET		85	19.527	26.725	0.404	1.00 31.00	С
ATOM	649	SD	MET		85	17.786	26.989	-0.022	1.00 36.83	S
ATOM	650	CE	MET		85	17.068	25.555	0.714	1.00 26.89	С
ATOM	651	N	ILE		86	20.337	27.620	4.836	1.00 19.40	N
ATOM	652	CA	ILE		86	20.194	27.405	6.278	1.00 19.53	С
ATOM	653	С	ILE		86	19.450	28.577	6.938	1.00 21.60	С
ATOM	654	0	ILE		86	18.549	28.368	7.752	1.00 21.92	0
ATOM	655	CB	ILE		86	21.567	27.192	6.968	1.00 19.74	C
ATOM	656		ILE		86	22.208	25.891	6.481	1.00 19.89	С
ATOM	657		ILE		86	21.408	27.147	8.498	1.00 15.03	С
ATOM	658		ILE		86	23.625	25.688	6.992	1.00 18.88	С
ATOM	659	N	GLU		87	19.820	29.804	6.572	1.00 21.72	N
ATOM	660	CA	GLU		87	19.173	31.011	7.104	1.00 23.30	С
ATOM	661	С	GLU		87	17.690	31.084	6.719	1.00 22.73	C
ATOM	662	0	GLU		87	16.835	31.264	7.578	1.00 24.21	0
ATOM	663	CB	GLU		87	19.869	32.260	6.563	1.00 22.51	С
ATOM	664	CG	GLU		87	21.167	32.573	7.242	1.00 24.89	С
ATOM	665	CD OD1	GLU		87	22.066	33.452	6.399	1.00 23.90	С
ATOM	666	OE1	GLU		87	21.593	34.031	5.391	1.00 20.05	0
ATOM	667	OE2	GLU		87	23.265	33.525	6.743	1.00 27.05	0
ATOM	668	N	SER		88	17.418	30.966	5.417	1.00 23.72	И
ATOM	669	CA	SER		88	16.071	31.008	4.851	1.00 25.11	С
ATOM	670	С	SER	А	88	15.156	29.964	5.462	1.00 25.76	С

ATOM	671	0	SER	А	88	14.048	30.283	5.890	1.00 25.56	0
ATOM	672	СВ	SER	А	88	16.124	30.776	3.342	1.00 24.72	С
ATOM	673	OG	SER		88	16.813	31.829	2.714	1.00 31.36	0
ATOM	674	N	ASN		89	15.625	28.717	5.494	1.00 25.50	N
ATOM	675	CA	ASN		89	14.848	27.610	6.042	1.00 23.80	C
	676	C	ASN		89		27.839		1.00 23.46	C
ATOM						14.454		7.491		
ATOM	677	0	ASN		89	13.278	27.795	7.823	1.00 24.35	0
MOTA	678	СВ	ASN		89	15.610	26.288	5.916	1.00 19.57	С
ATOM	679	CG	ASN		89	15.709	25.799	4.482	1.00 21.14	С
ATOM	680	OD1	ASN	Α	89	16.474	24.883	4.187	1.00 25.10	0
MOTA	681	ND2	ASN	Α	89	14.933	26.396	3.589	1.00 18.41	N
MOTA	682	N	ILE	Α	90	15.436	28.116	8.341	1.00 25.82	N
ATOM	683	CA	ILE	Α	90	15.175	28.339	9.763	1.00 25.99	С
ATOM	684	С	ILE	Α	90	14.296	29.559	10.061	1.00 25.71	С
ATOM	685	0	ILE		90	13.295	29.455	10.777	1.00 28.84	0
ATOM	686	СВ	ILE		90	16.508	28.412	10.576	1.00 23.78	C
ATOM	687	CG1	ILE		90	17.189	27.037	10.548	1.00 23.41	C
ATOM	688	CG2	ILE		90	16.253	28.888	12.016	1.00 15.55	C
ATOM	689	CD1	ILE		90	18.452	26.942	11.372	1.00 24.22	С
ATOM	690	N	ILE		91	14.672	30.711	9.518	1.00 26.09	N
ATOM	691	CA	ILE		91	13.922	31.939	9.747	1.00 24.31	C
MOTA	692	С	ILE		91	12.484	31.866	9.240	1.00 24.33	С
ATOM	693	0	ILE		91	11.564	32.330	9.914	1.00 25.31	0
ATOM	694	СВ	ILE		91	14.665	33.148	9.139	1.00 21.42	С
ATOM	695	CG1	ILE	Α	91	15.906	33.449	9.986	1.00 15.68	С
MOTA	696	CG2	ILE	Α	91	13.734	34.359	9.013	1.00 20.44	С
ATOM	697	CD1	ILE	Α	91	16.893	34.385	9.322	1.00 15.80	С
ATOM	698	N	HIS	Α	92	12.285	31.278	8.068	1.00 22.96	N
ATOM	699	CA	HIS	А	92	10.943	31.165	7.529	1.00 23.90	С
ATOM	700	С	HIS	А	92	10.114	30.160	8.345	1.00 25.84	С
ATOM	701	0	HIS		92	8.973	30.447	8.719	1.00 27.61	0
ATOM	702	СВ	HIS		92	10.987	30.757	6.065	1.00 21.74	C
ATOM	703	CG	HIS		92	9.658	30.845	5.383	1.00 28.28	C
ATOM	704		HIS		92	8.950	29.731	4.981	1.00 25.58	N
ATOM	705		HIS		92	8.912	31.916	5.024	1.00 26.43	C
ATOM	706		HIS		92	7.830	30.113	4.397	1.00 25.59	C
ATOM	707		HIS		92	7.782	31.434	4.410	1.00 29.98	N
ATOM	707	N	ALA		93	10.696	28.998	8.640	1.00 23.07	N
ATOM	709	CA	ALA		93	10.007	27.978	9.427	1.00 23.23	С
ATOM	710	С	ALA		93	9.627	28.515	10.801	1.00 24.71	C
ATOM	711	0	ALA		93	8.521	28.276	11.275	1.00 30.29	0
ATOM	712	СВ	ALA		93	10.873	26.737	9.574	1.00 18.63	С
ATOM	713	Ν	ALA		94	10.539	29.247	11.437	1.00 24.79	N
ATOM	714	CA	ALA		94	10.277	29.815	12.751	1.00 24.24	С
ATOM	715	С	ALA		94	9.034	30.695	12.683	1.00 25.32	С
ATOM	716	0	ALA	А	94	8.116	30.552	13.481	1.00 28.35	0
ATOM	717	CB	ALA	Α	94	11.483	30.622	13.234	1.00 20.61	С
ATOM	718	N	HIS	Α	95	8.982	31.575	11.693	1.00 25.38	N
ATOM	719	CA	HIS		95	7.833	32.454	11.553	1.00 25.49	С
ATOM	720	С	HIS		95	6.530	31.705	11.291	1.00 23.67	С
ATOM	721	Ö	HIS		95	5.502	32.033	11.880	1.00 23.13	0
ATOM	722	СВ	HIS		95	8.046	33.471	10.442	1.00 20.17	C
ATOM	723	CG	HIS		95	6.827	34.288	10.165	1.00 24.94	C
ATOM	724		HIS		95	6.053	34.200	9.035	1.00 27.90	N
	725		HIS		95 95	6.201	35.234	10.906	1.00 27.90	C
ATOM								9.094		
ATOM	726	СБТ	HIS	А	95	5.003	34.912	9.094	1.00 20.03	С

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11.202 1.00 31.32

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733 CG 734 CD 96 735 OE1 GLN A 736 NE2 GLN A 96 737 Ν ASN A 97 738 CA ASN A 97 97

MOTA 739 С MOTA ASN A 740 0 ASN A 97 MOTA 741 CB ASN A 97 ATOM CG ASN A 97 742 MOTA

743 OD1 ASN A 97 MOTA ATOM 744 ND2 ASN A 97 ASP A 98 745 MOTA Ν MOTA 746 CA ASP A 98 747 98 MOTA С ASP A

98 ATOM 748 0 ASP A 749 CB ASP A 98 MOTA 750 CG ASP A 98 MOTA 751 OD1 ASP A 98 ATOM 752 OD2 ASP A 98 ATOM

VAL A 99 ATOM 753 N CA VAL A 99 ATOM 754 755 VAL A 99 MOTA С MOTA 756 0 VAL A 99 MOTA 757 CB VAL A 99

MOTA 758 CG1 VAL A 99 CG2 VAL A 99 759 MOTA MOTA 760 N ASN A 100 ATOM 761 CA ASN A 100 762 С ASN A 100 MOTA

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ATOM 764 CB ASN A 100 ATOM 765 CG ASN A 100 766 OD1 ASN A 100 MOTA 767 ND2 ASN A 100 MOTA 768 Ν LYS A 101 MOTA

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771 LYS A 101 ATOM 0 772 CB LYS A 101 ATOM 773 CG LYS A 101 MOTA MOTA 774 CD LYS A 101

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LYS A 101 MOTA 776 NZ777 Ν LEU A 102 MOTA MOTA 778 CA LEU A 102 LEU A 102 MOTA

 779
 C
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 16.635
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 17.325
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 LEU A 102
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5.960 1.00 49.32 5.710 28.879 12.160 1.00 26.05 13.335 1.00 23.14 5.297 28.130 14.615 1.00 25.71 5.299 28.936 5.507 28.407 15.701 6.133 26.863 13.457

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5.879 25.904 12.301 6.609 25.888 11.307 4.804 25.137 12.404 1.00 28.58 14.467 1.00 28.81 5.080 30.234 4.989

15.582 1.00 33.92 31.154 31.343 16.585 1.00 34.80 31.709 17.742 1.00 37.04 30.954 16.311 1.00 44.04 31.640

15.611 1.00 52.45 32.887 15.519 1.00 56.60 15.133 1.00 61.09 1.613 30.934 16.162 1.00 31.89 31.100 31.349

17.044 1.00 28.45 32.856 16.867 1.00 27.59 33.335 15.750 1.00 29.78 30.574 16.606 1.00 28.67 30.760 17.626 1.00 26.83

16.434 1.00 29.55 9.383 29.104 17.949 1.00 23.59 33.609 35.055 17.876 1.00 25.30 35.555 18.162 1.00 25.90 36.641 17.713 1.00 24.77

35.710 18.839 1.00 22.17 37.128 18.451 1.00 22.87 37.365 17.387 1.00 27.52 38.083 19.306 1.00 20.31 34.756 18.903 1.00 23.79

35.108 19.285 1.00 25.79 34.282 18.581 1.00 25.08 33.054 18.609 1.00 23.20 34.963 20.795 1.00 25.57

21.627 1.00 25.40 36.123 23.035 1.00 28.23 36.003 37.342 23.580 1.00 27.26 38.022 22.638 1.00 27.99

34.979 17.997 1.00 25.18 34.330 17.280 1.00 22.94 17.325 1.00 22.40

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ATOM	783	CD1	LEU	A	102	15.149	32.609	13.808	1.00 19.11	С
ATOM	784		LEU			16.830	34.470	14.180	1.00 20.23	C
ATOM	785	N	LEU			17.801	34.594	17.485	1.00 20.47	N
ATOM	786	CA	LEU			19.050	35.340	17.499	1.00 19.02	C
ATOM	787	C	LEU			19.928	34.828	16.361	1.00 20.80	C
ATOM	788	0	LEU			20.236	33.634	16.296	1.00 19.82	0
	789		LEU						1.00 19.82	
ATOM		CB				19.787	35.183	18.825		С
ATOM	790	CG	LEU			21.035	36.066	18.826	1.00 18.00	C
ATOM	791		LEU			20.646	37.506	19.115	1.00 18.01	C
ATOM	792		LEU			22.016	35.573	19.841	1.00 17.96	C
ATOM	793	N	PHE			20.281	35.726	15.444	1.00 20.56	N
ATOM	794	CA	PHE			21.125	35.408	14.297	1.00 21.46	C
ATOM	795	С	PHE			22.563	35.869	14.570	1.00 22.79	C
ATOM	796	0	PHE			22.794	36.997	15.014	1.00 22.46	0
ATOM	797	CB	PHE			20.565	36.105	13.049	1.00 21.57	C
ATOM	798	CG	PHE			21.380	35.890	11.802	1.00 23.33	C
ATOM	799		PHE			21.444	34.635	11.202	1.00 26.14	C
ATOM	800		PHE			22.086	36.941	11.224	1.00 21.59	C
ATOM	801		PHE			22.205	34.431	10.043	1.00 24.02	C
ATOM	802		PHE			22.845	36.745	10.067	1.00 20.52	C
ATOM	803	CZ	PHE			22.905	35.494	9.480	1.00 17.49	C
ATOM	804	N	LEU			23.516	34.966	14.346	1.00 25.28	N
ATOM	805	CA	LEU			24.939	35.252	14.543	1.00 25.01	C
ATOM	806	С	LEU			25.590	35.564	13.220	1.00 24.60	С
ATOM	807	0	LEU			25.660	34.711	12.336	1.00 28.41	0
ATOM	808	СВ	LEU			25.644	34.055	15.146	1.00 25.44	С
ATOM	809	CG	LEU			25.080	33.686	16.502	1.00 30.67	C
ATOM	810	CD1				25.702	32.401	16.952	1.00 40.93	C
ATOM	811	CD2				25.378	34.774	17.481	1.00 35.86	С
ATOM	812	Ν	GLY			26.048	36.800	13.082	1.00 24.93	N
ATOM	813	CA	GLY			26.685	37.208	11.850	1.00 27.80	C
ATOM	814	С	GLY			28.181	37.021	11.939	1.00 30.16	C
ATOM	815	0	GLY			28.670	36.113	12.607	1.00 27.94	0
ATOM	816	N	SER			28.917	37.980	11.375	1.00 31.79	N
ATOM	817	CA	SER			30.368	37.894	11.371	1.00 32.80	С
ATOM	818	С	SER			30.972	39.272	11.112	1.00 33.57	С
ATOM	819	0	SER			30.327	40.135	10.521	1.00 34.39	0
ATOM	820	СВ	SER			30.793	36.910	10.279	1.00 33.43	C
ATOM	821	OG	SER			32.176	36.676	10.307	1.00 39.11	0
ATOM	822	Ν	SER			32.212	39.478	11.560	1.00 35.89	N
MOTA	823	CA	SER			32.892	40.754	11.395	1.00 36.25	С
ATOM	824	С	SER			33.402	40.965	9.978	1.00 36.16	С
ATOM	825	0	SER			33.631	42.097	9.564	1.00 37.37	0
ATOM	826	СВ	SER			34.038	40.883	12.391	1.00 34.62	С
MOTA	827	OG	SER			34.953	39.818	12.238	1.00 42.13	0
ATOM	828	Ν	CYS			33.609	39.868	9.259	1.00 37.14	N
ATOM	829	CA	CYS			34.098	39.942	7.883	1.00 38.02	С
ATOM	830	С	CYS			33.012	40.398	6.906	1.00 34.24	С
ATOM	831	0	CYS			33.206	40.436	5.700	1.00 37.29	0
ATOM	832	СВ	CYS			34.737	38.605	7.464	1.00 42.97	С
MOTA	833	SG	CYS			33.748	37.121	7.765	1.00 51.33	S
MOTA	834	И	ILE			31.891	40.825	7.473	1.00 29.76	N
MOTA	835	CA	ILE			30.730	41.321	6.758	1.00 29.62	С
MOTA	836	С	ILE			30.893	42.822	6.446	1.00 24.97	С
MOTA	837	0	ILE			30.217	43.355	5.573	1.00 24.10	0
MOTA	838	СВ	ILE	A	110	29.484	41.172	7.656	1.00 34.86	С

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ATOM	839	CG1				28.931	39.768			36.57	
ATOM	840	CG2	ILE	Α	110	28.390	42.090	7.256	1.00	41.13	
ATOM	841	CD1	ILE	Α	110	27.645	39.708	8.427	1.00	36.78	
ATOM	842	N	TYR	Α	111	31.732	43.504	7.201	1.00	22.20	
ATOM	843	CA	TYR	Α	111	31.953		6.994	1.00	19.66	
ATOM	844	С			111	32.881	45.222	5.826		21.91	
ATOM	845	0				33.708	44.377	5.462		20.16	
ATOM	846	СВ			111	33.708 32.524	45.558	8.258		15.60	
ATOM	847	CG			111		45.675			16.58	
ATOM	848	CD1				30.430	46 567	9.216		19.56	
ATOM	849				111		44.919			17.52	
ATOM	850				111		46.706			18.68	
ATOM	851	CE2			111	30.667		11.536		21.66	
ATOM	852	CZ			111	29.616		11.398		20.43	
ATOM	853	OH			111	28.729		12.430		24.08	
ATOM	854	N			112	32.770		5.235		22.08	
ATOM	855	CA				33.605				21.89	
ATOM	856	С				35.076		4.412		22.87	
ATOM	857	0				35.480		5.557		21.81	
ATOM	858	CB				33.247				20.04	
ATOM	859	CG			112		48.331			23.89	
ATOM	860	CD			112	31.804		5.579		21.47	
ATOM	861	N			113	35.854		3.396		28.24	•
ATOM	862	CA			113	37.293	46.087	3.539		32.85	
ATOM	863	С			113	37.974	47.357	4.070		35.04	
ATOM	864	0	LYS	Α	113	38.807	47.297	4.984	1.00	35.35	
ATOM	865	СВ	LYS	Α	113	37.907	45.696	2.182	1.00	34.21	
ATOM	866	CG	LYS	Α	113	39.384	45.359	2.258	1.00	43.38	
ATOM	867	CD	LYS	Α	113	40.066	45.284	0.893	1.00	49.96	
ATOM	868	CE	LYS	Α	113	41.558	44.953	1.075	1.00	51.58	
ATOM	869	ΝZ	LYS	Α	113	42.352	45.044	-0.185	1.00	55.85	
ATOM	870	N			114	37.580		3.516	1.00	36.50	
ATOM	871	CA			114	38.152		3.903	1.00	37.33	
ATOM	872	С			114	37.277		4.837		34.59	
ATOM	873	0			114	37.253		4.764		37.28	
ATOM	874	СВ			114	38.534		2.649		38.36	
ATOM	875	CG				39.563		1.777		43.26	
ATOM	876				114					44.42	
	877				114			2.538		38.34	
ATOM	878	N			115			5.752		32.34	
ATOM	879	CA	ALA			35.735	50.634	6.704		31.40	
ATOM	880	C	ALA			36.516	51.528	7.680		34.23	
ATOM	881	0	ALA			37.713	51.355	7.890		34.61	
ATOM	882	СВ	ALA			34.931	49.607	7.470		28.20	
ATOM	883	N	LYS			35.809	52.488	8.265		36.34	
ATOM	884	CA	LYS			36.359	53.422	9.241		35.76	
ATOM	885	C	LYS			36.519	52.645	10.545		31.92	
MOTA	886 887	O CB	LYS			35.632	51.879	10.905		31.98	
ATOM		CB	LYS			35.356	54.568	9.430		43.65	
ATOM	888	CG	LYS			35.727	55.629	10.455		56.26	
MOTA	889	CD	LYS			34.491	56.466	10.826		66.05	
MOTA	890	CE	LYS			34.803	57.567	11.848		70.86	
ATOM	891	NZ	LYS			35.633	58.672	11.269		74.53	
ATOM	892	N	GLN			37.636	52.847	11.246		29.36	
ATOM	893	CA	GLN			37.924	52.158	12.516		25.23	
ATOM	894	С	GLN	Α	117	37.839	53.083	13.744	1.00	25.91	

ATOM	895	0	GLN	Α	117	38.269	54.229	13.690	1.00 31.1	9 0
ATOM	896	СВ			117	39.330	51.549	12.466	1.00 24.7	
ATOM	897	CG	GLN	Α	117	39.615	50.686	11.249	1.00 18.82	
ATOM	898	CD	GLN	Α	117	38.805	49.424	11.258	1.00 19.9	
ATOM	899	OE1	GLN	Α	117	38.556	48.846	12.313	1.00 22.8	
ATOM	900	NE2	GLN	Α	117	38.379	48.985	10.083	1.00 20.40	
ATOM	901	N	PRO	Α	118	37.225	52.617	14.848	1.00 25.2	
ATOM	902	CA	PRO			36.607	51.290	14.997	1.00 26.2	
ATOM	903	С	PRO			35.317	51.255	14.168	1.00 26.18	
ATOM	904	0	PRO			34.716	52.298	13.925	1.00 26.28	
ATOM	905	СВ	PRO			36.352	51.194	16.510	1.00 24.60	
ATOM	906	CG	PRO			36.182	52.628	16.930	1.00 24.1	
ATOM	907	CD	PRO			37.241	53.341	16.132	1.00 21.6	
ATOM	908	N			119	34.926	50.076	13.695	1.00 23.90	
ATOM	909	CA			119	33.740	49.944	12.853	1.00 20.88	
ATOM	910	C			119	32.399	49.934	13.574	1.00 23.2	
ATOM	911	0			119	32.068	48.970	14.271	1.00 24.9	
ATOM	912	СВ			119	33.861	48.690	12.005	1.00 20.5	
ATOM	913	CG	MET		119	35.163	48.597	11.253	1.00 22.7	
ATOM	914	SD	MET			35.226	47.133	10.232	1.00 26.9	
ATOM	915	CE			119	35.458	45.861	11.455	1.00 19.8	
ATOM	916	N			120	31.622	51.001	13.407	1.00 22.28	
ATOM	917	CA			120	30.301	51.069	14.028	1.00 22.2	
ATOM	918	C	ALA			29.336	50.246	13.166	1.00 22.62	
ATOM	919	0	ALA			29.649	49.903	12.023	1.00 20.0	
ATOM	920	СВ	ALA			29.827	52.526	14.142	1.00 18.8	
ATOM	921	И	GLU			28.177	49.912	13.725	1.00 23.12	
ATOM	922	CA	GLU			27.175	49.124	13.020	1.00 19.2	
ATOM	923	C	GLU			26.723	49.722	11.685	1.00 19.3	
ATOM	924	0	GLU			26.407	48.988	10.740	1.00 19.7	
ATOM	925	CB	GLU			25.976	48.863	13.930	1.00 16.73	
ATOM	926	CG	GLU			26.240	47.831	15.023	1.00 16.22	
ATOM	927	CD	GLU			26.769	48.427	16.322	1.00 20.4	
ATOM	928	OE1	GLU			27.183	49.609	16.353	1.00 20.4	
ATOM	929	OE2	GLU			26.766	47.702	17.333	1.00 21.3	
ATOM	930	N			122	26.758	51.050	11.594	1.00 19.70	
ATOM	931	CA			122	26.351	51.775	10.384	1.00 21.40	
ATOM	932	C			122	27.360	51.661	9.261	1.00 22.63	
ATOM	933	0			122	27.161	52.198	8.169	1.00 26.80	
ATOM	934	СВ			122	26.135	53.249	10.701	1.00 23.4	
ATOM	935	OG			122	27.269	53.770	11.360	1.00 26.9	
ATOM	936	N			123	28.444	50.950	9.531	1.00 23.5	
ATOM	937	CA			123	29.485	50.751	8.546	1.00 20.5	
ATOM	938	C			123	29.046	49.675	7.555	1.00 21.0	
ATOM	939	0			123	29.638	49.515	6.484	1.00 21.0	
ATOM	940	CB			123	30.767	50.355	9.260	1.00 24.43	
ATOM	941	CG			123	31.995	50.876	8.597	1.00 24.4	
ATOM	942	CD			123	31.996	52.375	8.493	1.00 31.3	
ATOM	943		GLU			31.643	53.034	9.486	1.00 33.12	
	944		GLU			32.353	52.888	7.415	1.00 35.3	
ATOM ATOM	945	N			123	27.976	48.969	7.413	1.00 33.3	
ATOM	945	CA			124	27.419	47.916	7.913	1.00 21.30	
ATOM	947	CA			124	26.945	47.916	5.735	1.00 22.23	
ATOM	948	0			124	26.189	49.404	5.678	1.00 22.93	
ATOM	940	CB			124	26.236	47.249	7.777	1.00 22.6	
ATOM	950	СБ	LEU			25.720	46.001	7.056	1.00 24.7	
ALOM	200	UU	∪ند	А	14 1	20.120	-0.00T	1.000	1.00 20.0	

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CB LEU A 125

27.383 47.774 4.668 27.021 48.099 3.289 1.00 27.41 27.587 49.417 27.220 49.856 25.487 48.015

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2.748 1.00 29.75 1.655 1.00 33.08 3.090 1.00 20.99 3.080 1.00 21.16

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958 CG LEU A 125 24.845 46.611 ATOM 959 CD1 LEU A 125 23.337 46.705 3.112 1.00 24.02 ATOM 960 CD2 LEU A 125 25.261 45.840 1.855 1.00 22.28 MOTA 28.551 ATOM 961 N GLN A 126 49.981 3.469 1.00 31.56 CA GLN A 126 29.179 51.246 3.094 1.00 32.38 962

29.179 51.246 30.310 51.174 30.896 52.200 29.707 51.942 28.634 52.399 MOTA GLN A 126 2.074 1.00 33.98 С MOTA 963 964 0 GLN A 126 1.735 1.00 41.52 MOTA 965 CB GLN A 126 4.341 1.00 34.49 MOTA 5.285 1.00 41.42 966 CG GLN A 126 MOTA

967 CD GLN A 126 27.835 53.563 4.744 1.00 45.73 MOTA MOTA 27.582 53.666 968 OE1 GLN A 126 3.536 1.00 46.23 NE2 GLN A 126 27.434 54.456 5.639 1.00 47.94 969 MOTA 1.599 1.00 32.59 GLY A 127 30.633 49.977 MOTA 970 N

CA GLY A 127 49.837 31.710 0.636 1.00 28.17 MOTA 971 ATOM 972 C GLY A 127 31.958 48.385 0.286 1.00 27.52 31.380 973 0 GLY A 127 47.482 0.898 1.00 27.86 MOTA 974 N THR A 128 32.851 48.163 -0.673 1.00 26.27 MOTA 975 CA THR A 128 33.164 46.825 -1.136 1.00 27.47 ATOM

-0.058 1.00 25.48 976 C THR A 128 33.726 45.902 MOTA 0 0.872 1.00 26.43 977 THR A 128 34.406 46.334 ATOM 978 CB THR A 128 34.097 46.846 -2.384 1.00 28.11 ATOM 979 OG1 THR A 128 35.366 47.392 -2.034 1.00 32.42 MOTA

MOTA 980 CG2 THR A 128 33.490 47.688 -3.487 1.00 27.69 LEU A 129 MOTA 981 N 33.406 44.623 -0.203 1.00 24.00 MOTA 982 CA LEU A 129 33.830 43.581 0.717 1.00 24.48 0.333 1.00 23.74 983 С LEU A 129 35.195 42.996 MOTA 35.655 43.149 -0.801 1.00 22.27 MOTA 984 0 LEU A 129

32.774 42.462 ATOM 985 CB LEU A 129 0.710 1.00 23.29 986 CG LEU A 129 31.347 42.886 1.079 1.00 25.81 ATOM ATOM 987 CD1 LEU A 129 30.327 41.878 0.580 1.00 20.36 ATOM 988 CD2 LEU A 129 31.258 43.079 2.588 1.00 19.31 ATOM 989 N GLU A 130 35.851 42.366 1.306 1.00 25.05

990 CA GLU A 130 37.132 41.693 1.097 1.00 24.79 MOTA 991 С GLU A 130 36.791 40.542 0.131 1.00 23.00 MOTA 992 O GLU A 130 35.842 39.785 0.369 1.00 22.00 ATOM 993 37.650

CB GLU A 130 41.177 2.450 1.00 29.63 MOTA 38.787 40.158 ATOM 994 CG GLU A 130 2.400 1.00 44.16 995 CD GLU A 130 40.017 40.646 1.628 1.00 52.24 ATOM 996 OE1 GLU A 130 40.546 41.738 1.961 1.00 53.62 MOTA

OE2 GLU A 130 40.454 39.926 0.691 1.00 50.43 997 ATOM -1.008 1.00 22.20 ATOM 998 N PRO A 131 37.502 40.443 -1.975 1.00 21.13 ATOM 999 CA PRO A 131 37.220 39.377 1000 C MOTA

999 CA PRO A 131 37.220 39.377 -1.975 1.00 21.13
1000 C PRO A 131 37.146 37.963 -1.393 1.00 23.60
1001 O PRO A 131 36.205 37.219 -1.689 1.00 24.52
1002 CB PRO A 131 38.362 39.514 -2.977 1.00 18.52
1003 CG PRO A 131 38.638 40.969 -2.960 1.00 20.37
1004 CD PRO A 131 38.606 41.296 -1.489 1.00 22.35
1005 N THR A 132 38.115 37.597 -0.559 1.00 22.10
1006 CA THR A 132 38.135 36.267 0.030 1.00 24.51 MOTA MOTA MOTA MOTA

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4.459 1.00 21.55 23.367 35.788 25.484 33.848 2.783 1.00 17.76 25.562 36.158 4.858 1.00 16.41 25.381 36.671 6.208 1.00 14.69 6.263 1.00 16.30

7.115 1.00 17.24 6.873 1.00 15.99 7.331 1.00 19.93 8.333 1.00 22.40

8.879 1.00 25.32 9.988 1.00 26.35 5.377 1.00 17.04 5.306 1.00 15.15 4.952 1.00 16.31

5.535 1.00 17.36 4.260 1.00 17.42 4.769 1.00 15.96 3.955 1.00 16.32

3.697 1.00 18.68 4.016 1.00 14.25 3.611 1.00 15.77 4.817 1.00 18.41

4.933 1.00 20.21 2.505 1.00 15.02 5.704 1.00 17.64 6.911 1.00 14.45

7.855 1.00 18.79 8.485 1.00 17.27 7.964 1.00 19.35 8.826 1.00 18.06 8.253 1.00 16.67

8.987 1.00 19.06 8.950 1.00 19.55 9.778 1.00 14.18 9.590 1.00 15.26 9.723 1.00 13.91 6.940 1.00 14.88

> 6.285 1.00 17.39 6.314 1.00 18.58 6.255 1.00 20.09 4.864 1.00 16.44

4.830 1.00 16.92 19.225 44.231 5.634 1.00 18.62 20.439 45.106 5.868 1.00 16.66 20.048 46.282 6.703 1.00 18.10 16.872 39.418 6.355 1.00 17.80

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MOTA

ATOM	1119	С	CYS	Α	147	1	4.706	40.	532	10.	271	1.0	00	18.	48	С
ATOM	1120	0	CYS	Α	147	1	3.582	40.	590	10.	771	1.0	00	22.	69	0
ATOM	1121	СВ	CYS	Α	147	1	6.631	39.	263	11.	180	1.0	00	17.	45	С
ATOM	1122	SG	CYS	Α	147	1	7.353	37.	676	11.	575	1.0	00	19.	67	S
ATOM	1123	N	GLU	Α	148	1	5.357	41.	592		795	1.0	00	17.	49	N
ATOM	1124	CA			148		4.786	42.			793	1.0		18.		С
ATOM	1125	С			148	1	3.472	42.			027			17.		С
ATOM	1126	0	GLU				2.519	43.			463			19.		0
ATOM	1127	СВ	GLU				5.795	43.			223			13.		С
ATOM	1128	CG			148		7.027	44.			122			14.		С
ATOM	1129	CD			148		8.067	45.			590			16.		C
ATOM	1130	OE1	GLU				7.994	45.			406	1.0		15.		0
ATOM	1131	OE2	GLU				8.968	45.			376	1.0		20.		0
ATOM	1132	N			149		3.416	42.			929	1.0		18.		N
ATOM	1133	CA			149		2.230	42.			088	1.0		17.		С
ATOM	1134	C			149		1.062	41.			775			18.		C
ATOM	1135	0			149		9.923	41.			592			19.		0
ATOM	1136	СВ			149		2.569	41.			761			17.		С
ATOM	1137	OG			149		3.441	42.			008			15.		0
ATOM	1138	И			150		1.340	40.			567			18.		N
ATOM	1139	CA			150		0.292	39.			298	1.0		16.		C
ATOM	1140	CA			150		9.850	40.			476	1.0		18.		С
ATOM	1141	0			150		8.681	40.			823	1.0		20.		
																0
MOTA	1142	CB			150		0.745	38.			758			14.		С
ATOM	1143	CG			150		0.581	37.			679			15.		С
ATOM	1144	CD1			150		1.533	37.			662			16.		С
ATOM	1145	CD2			150		9.435	36.			615			17.		С
ATOM	1146	CE1	TYR				1.338	36.			607			17.		С
ATOM	1147	CE2	TYR				9.230	35.			558			17.		С
ATOM	1148	CZ			150		0.183	35.			562	1.0		17.		С
ATOM	1149	OH			150		9.976	34.			509	1.0		20.		0
ATOM	1150	N	ASN				0.791	41.			076	1.0		16.		И
ATOM	1151	CA	ASN				0.477	42.			182	1.0		19.		С
ATOM	1152	С	ASN				9.517	43.			681			19.		С
ATOM	1153	0	ASN				8.507	43.			316			22.		0
ATOM	1154	СВ	ASN				1.736	42.			704			15.		С
ATOM	1155	CG	ASN				2.666	41.			438			17.		С
ATOM	1156	OD1	ASN				3.778	42.			797			24.		0
ATOM	1157		ASN				2.223	40.			674			11.		Ν
ATOM	1158	Ν			152		9.847	43.			545			21.		Ν
ATOM	1159	CA			152		9.021	44.			954			21.		С
ATOM	1160	С			152		7.638	44.			499			20.		С
ATOM	1161	0			152		6.631	44.			952			20.		0
ATOM	1162	СВ			152		9.751	45.			781			18.		С
ATOM	1163	CG			152		0.876	46.			214			17.		С
ATOM	1164	CD			152		1.693	47.			027			17.		С
ATOM	1165	NE			152		0.952	47.			208			20.		Ν
ATOM	1166	CZ			152		0.992	48.			879			24.		С
ATOM	1167		ARG				1.738	47.			206	1.0	00	23.	93	Ν
ATOM	1168	NH2	ARG				0.309	48.			219			24.		Ν
ATOM	1169	N	GLN	А	153		7.593	43.			637			19.		Ν
ATOM	1170	CA			153		6.327	42.			114			19.		С
ATOM	1171	С	GLN	А	153		5.431	42.		9.	104	1.0	00	20.	21	С
ATOM	1172	0	GLN	А	153		4.249	42.	526	9.	194	1.0	00	21.	19	0
ATOM	1173	СВ	GLN	А	153		6.563	42.	038	6.	906	1.0	00	17.	52	С
ATOM	1174	CG	GLN	Α	153		5.277	41.	544	6.	243	1.0	00	15.	78	С

ATOM	1175	CD	GLN	А	153	5.511	40.720	4.979	1.00	16.28	С
ATOM	1176	OE1			153	4.616	40.019	4.513	1.00	22.19	0
ATOM	1177	NE2	GLN	Α	153	6.696	40.818	4.411	1.00	10.51	N
ATOM	1178	N	TYR	Α	154	5.995	41.308	9.877	1.00	21.58	N
ATOM	1179	CA	TYR	Α	154	5.201	40.506	10.806	1.00	19.10	С
ATOM	1180	С	TYR	Α	154	5.279	40.824	12.286	1.00	18.98	С
ATOM	1181	0	TYR	Α	154	4.620	40.172	13.086	1.00	22.18	0
ATOM	1182	СВ	TYR	Α	154	5.505	39.021	10.582	1.00	18.19	С
ATOM	1183	CG	TYR	Α	154	5.183	38.528	9.173	1.00	23.71	С
ATOM	1184	CD1	TYR	Α	154	3.857	38.336	8.762	1.00	20.58	С
ATOM	1185	CD2	TYR	Α	154	6.199	38.230	8.263		20.42	С
ATOM	1186	CE1			154	3.550	37.857	7.484		21.08	С
ATOM	1187	CE2	TYR	А	154	5.903	37.747	6.976	1.00	23.78	С
ATOM	1188	CZ			154	4.572	37.563	6.595		25.66	С
ATOM	1189	ОН			154	4.266	37.080	5.335		25.81	0
ATOM	1190	N			155	6.051	41.837	12.654	1.00		N
ATOM	1191	CA			155	6.176	42.191	14.053		18.81	С
ATOM	1192	С			155	6.923	41.145	14.859		22.00	C
ATOM	1193	0			155	6.629	40.927	16.029		24.07	0
ATOM	1194	N			156	7.890	40.487	14.226		24.23	N
ATOM	1195	CA			156	8.701	39.473	14.897		22.26	C
ATOM	1196	C			156	9.804	40.126	15.740		20.28	C
ATOM	1197	0			156	9.979	41.347	15.723		17.69	0
ATOM	1198	СВ			156	9.321	38.530	13.870		20.16	C
ATOM	1199	CG			156	8.321	37.604	13.213	1.00		C
ATOM	1200	CD			156	7.642	36.765	14.263		18.88	C
ATOM	1201	NE	ARG			6.711	35.816	13.669		21.98	N
ATOM	1202	CZ			156	5.744	35.194	14.340		22.35	C
ATOM	1203	NH1	ARG			5.575	35.427	15.630		21.83	N
ATOM	1204		ARG			4.966	34.312	13.728		23.42	N
ATOM	1205	N			157	10.527	39.301	16.494		20.16	N
ATOM	1206	CA			157	11.612	39.782	17.345		23.28	C
ATOM	1207	C			157	12.882	38.966	17.044		23.30	C
ATOM	1208	0	ASP			13.382	38.215	17.893		20.61	0
ATOM	1209	CB			157	11.210	39.663	18.820		23.18	C
ATOM	1210	CG			157	12.194	40.344	19.747		26.62	C
ATOM	1211	OD1			157	13.021	41.148	19.269		30.37	0
ATOM	1212				157	12.143	40.077	20.961		27.34	0
ATOM	1213	N			158	13.360	39.110	15.807		20.90	N
ATOM	1214	CA			158	14.530	38.411	15.304	1.00		C
ATOM	1215	C			158	15.712	39.354	15.374	1.00		C
ATOM	1216	0			158	15.864	40.261	14.551	1.00		0
ATOM	1217	СВ			158	14.285	37.962	13.865	1.00		C
ATOM	1218	CG			158	13.153	36.964	13.702	1.00		C
ATOM	1219	CD1			158	12.524	36.396	14.818	1.00		C
ATOM	1220		TYR			12.719	36.575	12.429	1.00		C
ATOM	1221	CE1			158	11.498	35.471	14.676	1.00		C
ATOM	1222		TYR			11.690	35.646	12.271	1.00		C
ATOM	1223	CZ			158	11.082	35.096	13.407	1.00		C
ATOM	1224	OH			158	10.067	34.165	13.282	1.00		0
ATOM	1225	N			159	16.525	39.150	16.400	1.00		И
ATOM	1226	CA			159	17.700	39.130	16.657	1.00		C
ATOM	1227	CA			159	18.963	39.349	16.056	1.00		C
ATOM	1228	0			159	18.982	38.169	15.691	1.00		0
ATOM	1229	CB			159	17.852	40.141	18.167	1.00		C
ATOM	1230	СБ			159	16.554	40.141	18.812	1.00		C
111 OL1	1200		23110	∠¬\	± J J	±0.004	-0.000	10.012	1.00	-0.10	C

ATOM	1231	CD	ARG	Α	159	16.643	40.658	20.308	1.00 19.95	С
ATOM	1232	NE	ARG	Α	159	15.344	40.986	20.893	1.00 23.79	N
MOTA	1233	CZ	ARG	Α	159	15.160	41.349	22.160	1.00 30.29	С
ATOM	1234	NH1	ARG	Α	159	16.191	41.437	22.992	1.00 27.48	N
ATOM	1235	NH2	ARG	Α	159	13.942	41.621	22.603	1.00 25.50	N
ATOM	1236	N	SER	Α	160	20.003	40.165	15.922	1.00 21.52	N
MOTA	1237	CA	SER	А	160	21.258	39.698	15.352	1.00 23.62	С
MOTA	1238	С	SER	Α	160	22.476	40.373	15.985	1.00 23.16	С
MOTA	1239	0	SER			22.430	41.546	16.363	1.00 25.95	0
ATOM	1240	СВ	SER	Α	160	21.240	39.890	13.824	1.00 21.06	С
MOTA	1241	OG	SER			21.077	41.248	13.492	1.00 25.26	0
MOTA	1242	N	VAL			23.534	39.586	16.170	1.00 22.67	N
ATOM	1243	CA	VAL			24.789	40.073	16.737	1.00 23.01	С
ATOM	1244	С	VAL			25.956	39.790	15.771	1.00 23.26	С
ATOM	1245	0	VAL			26.003	38.756	15.113	1.00 22.75	0
ATOM	1246	CB .	VAL			25.074	39.473	18.144	1.00 20.12	С
ATOM	1247	CG1	VAL			24.002	39.892	19.130	1.00 18.08	С
ATOM	1248	CG2				25.161	37.975	18.073	1.00 16.75	С
ATOM	1249	Ν	MET			26.878	40.751	15.692	1.00 26.62	N
ATOM	1250	CA	MET			28.057	40.670	14.817	1.00 26.73	С
ATOM	1251	С	MET			29.305	40.465	15.650	1.00 25.61	С
ATOM	1252	0	MET			29.826	41.414	16.228	1.00 26.50	0
ATOM	1253	CB	MET			28.208	41.970	14.036	1.00 32.18	С
ATOM	1254	CG	MET		162	28.837	41.794	12.679	1.00 38.35	С
ATOM	1255	SD	MET			27.578	41.641	11.427	1.00 54.63	S
ATOM	1256	CE	MET		162	26.516	40.326	12.031	1.00 43.07	С
ATOM	1257	N	PRO			29.785	39.219	15.774	1.00 24.89	N
ATOM	1258	CA	PRO			30.986	39.029	16.578	1.00 25.35	С
ATOM	1259	С	PRO			32.297	39.416	15.878	1.00 25.62	C
ATOM	1260	0	PRO			32.350	39.507	14.658	1.00 24.50	0
ATOM	1261	CB	PRO			30.971	37.536	16.912	1.00 22.76	С
ATOM	1262	CG	PRO			29.942	36.916	15.966	1.00 26.37	С
ATOM	1263	CD	PRO		163	29.366	37.987	15.091	1.00 25.14	C
ATOM	1264	N			164	33.330	39.690	16.666	1.00 22.61	N
ATOM	1265	CA			164	34.651	40.009	16.135	1.00 24.20	C
ATOM	1266 1267	С			164 164	35.365 34.695	38.645	16.015 16.041	1.00 23.13	C
ATOM ATOM	1268	O			164	35.389	37.604 40.997	17.083	1.00 21.63 1.00 23.20	0
ATOM	1269	CB OG1			164	36.649	41.376	16.509	1.00 23.20	C 0
							40.400			C
ATOM	1270 1271	CG2	THR ASN			35.611 36.691	38.623	18.459 15.850	1.00 15.02 1.00 21.86	И
ATOM ATOM	1272	N CA			165	37.445	37.354	15.766	1.00 21.88	C
ATOM	1273	C			165	37.233	36.590	17.064	1.00 17.44	C
ATOM	1274	0			165	37.233	37.147	18.153	1.00 20.23	0
ATOM	1275	CB			165	38.951	37.598	15.584	1.00 20.25	C
ATOM	1276	CG	ASN			39.272	38.393	14.347	1.00 24.23	C
ATOM	1277		ASN			38.908	38.003	13.240	1.00 24.25	0
ATOM	1278		ASN			39.945	39.519	14.523	1.00 26.65	N
ATOM	1279	N			166	36.882	35.318	16.949	1.00 20.56	N
ATOM	1280	CA			166	36.632	34.492	18.117	1.00 21.62	C
ATOM	1281	C			166	37.676	33.412	18.260	1.00 22.12	C
ATOM	1282	0			166	38.340	33.044	17.302	1.00 24.70	0
ATOM	1283	СВ			166	35.256	33.827	18.021	1.00 23.01	C
ATOM	1284	CG			166	33.998	34.681	17.861	1.00 23.48	C
ATOM	1285		LEU			32.800	33.755	17.866	1.00 20.16	C
ATOM	1286		LEU			33.879	35.713	18.975	1.00 17.88	C
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ATOM	1287	N	TYR	А	167	37.829	32.924	19.482	1.00 22.17	N
ATOM	1288	CA	TYR	Α	167	38.769	31.853	19.769	1.00 21.75	С
ATOM	1289	С	TYR	Α	167	38.278	31.157	21.037	1.00 20.77	С
ATOM	1290	0	TYR	Α	167	37.424	31.679	21.750	1.00 20.48	0
ATOM	1291	СВ	TYR	Α	167	40.197	32.412	19.942	1.00 19.35	С
ATOM	1292	CG	TYR	Α	167	40.422	33.184	21.223	1.00 21.90	С
ATOM	1293	CD1	TYR			40.070	34.536	21.323	1.00 17.98	С
ATOM	1294	CD2	TYR			40.965	32.554	22.351	1.00 18.77	С
ATOM	1295	CE1	TYR			40.253	35.234	22.516	1.00 19.87	С
ATOM	1296	CE2	TYR			41.148	33.239	23.539	1.00 18.95	C
ATOM	1297	CZ	TYR			40.792	34.575	23.614	1.00 21.48	C
ATOM	1298	OH	TYR			40.982	35.250	24.790	1.00 24.24	0
ATOM	1299	N	GLY		168	38.805	29.972	21.311	1.00 22.76	N
ATOM	1300	CA	GLY			38.406	29.241	22.502	1.00 22.06	C
ATOM	1301	C	GLY			38.271	27.759	22.208	1.00 23.53	C
ATOM	1302	0	GLY			38.724	27.299	21.154	1.00 21.40	0
ATOM	1303	N	PRO			37.706	26.972	23.139	1.00 23.29	N
ATOM	1303	CA	PRO			37.700	25.534	22.906	1.00 24.62	C
ATOM	1304	CA	PRO			36.628	25.202	21.725	1.00 24.02	C
ATOM	1306	0	PRO			35.729	25.975	21.382		0
ATOM	1307	CB	PRO		169	36.992	25.028	24.240	1.00 26.39	С
ATOM	1308	CG	PRO		169	36.397	26.255	24.886	1.00 26.70	С
ATOM	1309	CD	PRO			37.366	27.328	24.528	1.00 21.82	С
ATOM	1310	N	HIS			36.892	24.062	21.091	1.00 28.50	N
ATOM	1311	CA	HIS			36.124	23.575	19.948	1.00 30.57	С
ATOM	1312	С	HIS			36.403	24.298	18.662	1.00 32.60	C
ATOM	1313	0	HIS			35.684	24.138	17.674	1.00 34.13	0
ATOM	1314	СВ	HIS		170	34.633	23.545	20.255	1.00 29.85	С
ATOM	1315	CG	HIS			34.297	22.588	21.344	1.00 34.56	С
MOTA	1316	ND1	HIS			34.178	21.233	21.119	1.00 36.57	N
ATOM	1317				170	34.194	22.762	22.683	1.00 35.27	С
MOTA	1318	CE1	HIS			34.026	20.614	22.278	1.00 37.89	С
MOTA	1319	NE2	HIS	Α	170	34.032	21.518	23.241	1.00 35.12	N
MOTA	1320	N	ASP			37.461	25.097	18.681	1.00 33.78	N
MOTA	1321	CA	ASP			37.884	25.822	17.499	1.00 33.09	С
MOTA	1322	С	ASP	Α	171	38.602	24.788	16.644	1.00 35.61	С
ATOM	1323	0	ASP	Α	171	38.974	23.706	17.122	1.00 35.94	0
ATOM	1324	СВ	ASP	А	171	38.861	26.939	17.881	1.00 30.57	С
ATOM	1325	CG	ASP	Α	171	38.976	28.012	16.814	1.00 28.37	С
ATOM	1326	OD1	ASP	Α	171	38.614	27.762	15.640	1.00 29.30	0
MOTA	1327	OD2	ASP	Α	171	39.424	29.123	17.164	1.00 27.76	0
MOTA	1328	N	ASN	Α	172	38.791	25.118	15.380	1.00 37.89	N
MOTA	1329	CA	ASN	Α	172	39.475	24.228	14.462	1.00 41.79	С
MOTA	1330	С	ASN	Α	172	40.990	24.346	14.689	1.00 42.91	С
ATOM	1331	0	ASN	Α	172	41.629	25.279	14.201	1.00 42.78	0
ATOM	1332	СВ	ASN	Α	172	39.084	24.617	13.029	1.00 45.80	С
ATOM	1333	CG	ASN	Α	172	39.788	23.788	11.973	1.00 47.99	С
ATOM	1334	OD1	ASN	Α	172	40.462	22.798	12.276	1.00 47.72	0
ATOM	1335		ASN			39.632	24.197	10.714	1.00 47.32	N
ATOM	1336	N	PHE	Α	173	41.562	23.436	15.470	1.00 44.79	N
ATOM	1337	CA	PHE			43.004	23.492	15.712	1.00 48.38	С
ATOM	1338	C	PHE			43.815	22.768	14.651	1.00 56.73	C
ATOM	1339	0	PHE			45.039	22.668	14.768	1.00 55.79	0
ATOM	1340	СВ	PHE			43.365	22.970	17.100	1.00 40.93	C
ATOM	1341	CG	PHE			43.037	23.929	18.201	1.00 40.43	C
ATOM	1342		PHE			43.964	24.879	18.607	1.00 36.88	C
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ATOM	1343	CD3	PHE	7\	173	41.786	23.901	18.820	1 00	37.26		С
	1343		PHE			43.646	25.782	19.607		34.47		С
ATOM												
ATOM	1345		PHE			41.465	24.802	19.822		32.98		С
ATOM	1346	CZ	PHE			42.391	25.741	20.215		32.95		С
ATOM	1347	N	HIS			43.128	22.293	13.607		65.42		N
ATOM	1348	CA	HIS			43.767	21.585	12.498		69.81		С
ATOM	1349	С				44.768	22.520	11.816		72.79		С
ATOM	1350	0	HIS			44.635	23.751	11.880		72.80		0
ATOM	1351	CB	HIS			42.706	21.079	11.485		67.57		С
ATOM	1352	N	PRO			45.815	21.944	11.201		76.20		Ν
ATOM	1353	CA	PRO			46.867	22.693	10.499		76.51		С
ATOM	1354	С	PRO	Α	175	46.330	23.486	9.307		76.40		С
ATOM	1355	0	PRO	А	175	46.940	24.467	8.873	1.00	76.82		0
ATOM	1356	CB	PRO	Α	175	47.820	21.587	10.051	1.00	78.84		С
ATOM	1357	CG	PRO	Α	175	46.897	20.394	9.873	1.00	79.98		С
ATOM	1358	CD	PRO	Α	175	46.055	20.491	11.110	1.00	76.17		С
ATOM	1359	N	SER	Α	176	45.174	23.061	8.804	1.00	75.91		Ν
MOTA	1360	CA	SER	Α	176	44.519	23.705	7.669	1.00	77.56		С
MOTA	1361	С	SER	Α	176	43.935	25.084	8.022	1.00	76.71		С
ATOM	1362	0	SER	Α	176	43.845	25.962	7.155	1.00	76.52		0
ATOM	1363	CB	SER	Α	176	43.396	22.802	7.141	1.00	79.17		С
ATOM	1364	OG	SER	Α	176	43.848	21.473	6.950	1.00	81.71		0
ATOM	1365	N	ASN	Α	177	43.552	25.267	9.290	1.00	73.59		N
ATOM	1366	CA	ASN	Α	177	42.957	26.521	9.762	1.00	69.18		С
ATOM	1367	С	ASN	Α	177	43.878	27.733	9.675	1.00	65.23		С
ATOM	1368	0	ASN	Α	177	44.978	27.738	10.234	1.00	62.73		0
ATOM	1369	CB	ASN	Α	177	42.434	26.384	11.197	1.00	70.22		С
ATOM	1370	CG	ASN	Α	177	41.494	27.523	11.586	1.00	71.25		С
ATOM	1371	OD1	ASN	Α	177	40.987	28.244	10.722		73.62		0
ATOM	1372	ND2	ASN	Α	177	41.245	27.678	12.881	1.00	68.39		N
ATOM	1373	N	SER	Α	178	43.376	28.774	9.010	1.00	61.20		Ν
ATOM	1374	CA	SER	Α	178	44.105	30.022	8.811	1.00	54.87		С
ATOM	1375	С	SER	А	178	43.889	31.068	9.910	1.00	53.61		С
ATOM	1376	0	SER	А	178	44.583	32.092	9.924	1.00	55.62		0
ATOM	1377	CB	SER	Α	178	43.777	30.626	7.433		51.07		С
ATOM	1378	OG	SER	А	178	42.416	30.998	7.327		39.67		0
MOTA	1379	N			179	42.927	30.837	10.810		47.66		Ν
MOTA	1380	CA	HIS	Α	179	42.674	31.790	11.894	1.00	41.46		С
MOTA	1381	С	HIS	А	179	43.904	31.828	12.778		37.33		С
ATOM	1382	0	HIS			44.441	30.791	13.184	1.00	31.30		0
ATOM	1383	СВ	HIS			41.390	31.462	12.656		44.17		С
MOTA	1384	CG	HIS	Α	179	40.158	31.649	11.829	1.00	49.06		С
MOTA	1385	ND1	HIS	А	179	39.234	30.647	11.630	1.00	54.66		Ν
MOTA	1386	CD2	HIS	А	179	39.755	32.690	11.062	1.00	49.34		С
ATOM	1387	CE1	HIS	Α	179	38.320	31.059	10.768	1.00	52.87		С
ATOM	1388	NE2	HIS			38.614	32.295	10.409		49.34		Ν
MOTA	1389	N	VAL	Α	180	44.394	33.046	12.967		32.51		Ν
MOTA	1390	CA	VAL	А	180	45.613	33.304	13.702		30.98		С
ATOM	1391	С	VAL	А	180	45.782	32.653	15.079	1.00	28.65		С
ATOM	1392	0	VAL			46.775	31.956	15.297		30.93		0
ATOM	1393	СВ	VAL			45.937	34.834	13.708		31.66		С
ATOM	1394		VAL			45.065	35.583	14.700		27.73		С
MOTA	1395	CG2	VAL			47.407	35.060	13.967		34.52		С
MOTA	1396	N			181	44.815	32.802	15.982		24.81		Ν
MOTA	1397	CA			181	44.974	32.207	17.314		23.27		С
MOTA	1398	С	ILE	Α	181	45.164	30.671	17.340	1.00	24.94		С
002660.1												
903669.1												

ATOM	1399	0	ILE	Α	181	46.168	30.181	17.874	1.00	24.17	0
MOTA	1400	СВ	ILE	Α	181	43.892	32.702	18.312	1.00	18.80	С
ATOM	1401	CG1	ILE	Α	181	44.148	34.177	18.636	1.00	16.10	С
ATOM	1402	CG2	ILE	Α	181	43.930	31.884	19.595	1.00	15.42	С
ATOM	1403	CD1	ILE			43.142	34.792	19.556		14.73	С
ATOM	1404	N	PRO			44.224	29.894	16.761		23.45	N
ATOM	1405	CA	PRO			44.427	28.443	16.792		22.81	С
MOTA	1406	С	PRO			45.639	27.990	15.982		22.90	С
MOTA	1407	0	PRO			46.269	26.988	16.321		23.51	0
ATOM	1408	СВ	PRO			43.105	27.890	16.240	1.00	22.99	С
ATOM	1409	CG	PRO	Α	182	42.561	29.012	15.425	1.00	21.74	С
ATOM	1410	CD	PRO			42.873	30.214	16.271		24.85	С
ATOM	1411	N	ALA			45.971	28.731	14.928		20.96	N
ATOM	1412	CA	ALA			47.133	28.397	14.103		22.42	С
ATOM	1413	С	ALA			48.432	28.621	14.891		23.70	С
ATOM	1414	0	ALA			49.345	27.791	14.838		26.05	0
ATOM	1415	СВ	ALA			47.147	29.227	12.828		20.74	С
ATOM	1416	Ν	LEU			48.508	29.732	15.627		23.85	N
ATOM	1417	CA	LEU			49.697	30.036	16.421		23.21	С
ATOM	1418	С	LEU			49.818	29.182	17.671		23.57	С
ATOM	1419	0	LEU			50.925	28.862	18.080		25.02	0
ATOM	1420	СВ	LEU			49.778	31.523	16.773		22.64	C
ATOM	1421	CG	LEU			50.109	32.428	15.582		26.00	C
ATOM	1422	CD1	LEU			50.233	33.865	16.064		25.71	С
ATOM	1423		LEU			51.393	31.973	14.903		19.37	C
ATOM	1424	N	LEU			48.697	28.821	18.292		23.11	N
ATOM	1425	CA	LEU			48.751	27.972	19.478		22.32	C
ATOM	1426	С	LEU			49.369	26.639	19.076		23.75	С
ATOM	1427	0	LEU			50.245	26.120	19.760		26.08	0
ATOM	1428	CB	LEU			47.358	27.745	20.065		22.28	С
ATOM	1429	CG	LEU			46.929	28.738	21.146		25.52	С
ATOM	1430	CD1	LEU			45.501	28.430	21.581		26.95	С
ATOM	1431	CD2	LEU			47.878	28.657	22.335		21.32	С
ATOM	1432	N	ARG			48.946	26.133	17.923		24.14	N
ATOM	1433	CA	ARG			49.429	24.873	17.381		27.90	С
ATOM	1434	С	ARG			50.927 51.714	24.956	17.041		25.89	С
ATOM ATOM	1435 1436	O	ARG ARG			48.618	24.126 24.534	17.482 16.123		27.42 32.27	0
ATOM	1437	CB CG	ARG			48.923	23.202	15.492		42.10	C
ATOM			ARG								
ATOM	1438 1439	CD NE	ARG			48.360 48.602	22.085 20.757	16.353 15.789		57.29 66.34	С И
ATOM	1440	CZ	ARG			47.748	20.096	15.011		71.88	C
ATOM	1441		ARG			46.575	20.628	14.690		77.21	И
ATOM	1442		ARG			48.067	18.892	14.555		75.89	N
ATOM	1443	N	ARG			51.315	25.964	16.265		23.76	N
ATOM	1444	CA	ARG			52.707	26.130	15.873		23.58	C
ATOM	1445	C	ARG			53.657	26.308	17.055		23.83	C
ATOM	1446	0	ARG			54.722	25.695	17.094		23.85	0
ATOM	1447	СВ	ARG			52.858	27.306	14.916		22.92	C
ATOM	1448	CG	ARG			52.109	27.131	13.627		29.91	C
ATOM	1449	CD	ARG			52.386	28.289	12.699		34.96	C
ATOM	1450	NE	ARG			53.813	28.394	12.398		36.36	И
ATOM	1451	CZ	ARG			54.393	29.465	11.865		36.75	C
ATOM	1452		ARG			53.671	30.544	11.569		32.66	N
ATOM	1453		ARG			55.699	29.452	11.621		34.82	N
ATOM	1454	N	PHE			53.289	27.160	18.007		21.87	N
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ATOM	1455	CA	PHE	Α	188	54.135	27.387	19.168	1.00	22.62	С
ATOM	1456	С	PHE	Α	188	54.202	26.149	20.035	1.00	23.20	С
ATOM	1457	0	PHE	А	188	55.218	25.889	20.669	1.00	25.48	0
ATOM	1458	СВ	PHE	Α	188	53.674	28.613	19.961		19.85	С
ATOM	1459	CG	PHE			54.169	29.902	19.385		22.44	С
ATOM	1460		PHE			55.532	30.186	19.367		24.20	С
ATOM	1461		PHE			53.292	30.804	18.797		25.31	С
ATOM	1462		PHE			56.017	31.356	18.761	1.00	29.54	С
ATOM	1463		PHE			53.758	31.974	18.188		26.16	С
ATOM	1464	CZ	PHE			55.126	32.252	18.168	1.00	25.25	С
ATOM	1465	N	HIS			53.127	25.368	20.028	1.00	26.13	Ν
ATOM	1466	CA	HIS			53.077	24.129	20.795		27.61	С
ATOM	1467	С	HIS			54.109	23.142	20.244		28.91	С
ATOM	1468	0	HIS			54.890	22.556	20.999		28.51	0
ATOM	1469	СВ	HIS			51.683	23.495	20.727	1.00	28.66	С
ATOM	1470	CG			189	51.619	22.133	21.343		29.06	С
ATOM	1471		HIS			51.561	21.939	22.705		29.42	N
ATOM	1472		HIS			51.668	20.899	20.786		26.56	С
ATOM	1473		HIS			51.582	20.644	22.963	1.00		С
ATOM	1474		HIS			51.647	19.992	21.816		27.77	N
ATOM	1475	N			190	54.107	22.964	18.927		27.95	N
ATOM	1476	CA			190	55.043	22.052	18.298		32.43	С
ATOM	1477	С			190 190	56.485	22.529	18.323			С
ATOM	1478	0				57.404	21.723	18.512		34.26	0
ATOM	1479	CB CG	GLU		190	54.601 53.717	21.734 20.524	16.886 16.863		35.18 52.14	С
ATOM ATOM	1480 1481	CD			190	52.606	20.524	15.868		62.86	С
ATOM	1482	OE1	GLU			52.895	20.745	14.649	1.00	67.43	
ATOM	1483	OE2	GLU			51.441	20.745	16.313		71.25	0
ATOM	1484	N	ALA			56.681	23.835	18.149	1.00	30.86	И
ATOM	1485	CA	ALA			58.017	24.424	18.174		27.75	C
ATOM	1486	C	ALA			58.607	24.236	19.575	1.00	26.55	С
ATOM	1487	0	ALA			59.795	23.965	19.717	1.00	29.66	0
ATOM	1488	CB	ALA			57.960	25.915	17.802	1.00	22.11	С
ATOM	1489	N			192	57.762	24.342	20.598		23.59	И
ATOM	1490	CA			192	58.187	24.178	21.981		24.66	С
ATOM	1491	C	THR			58.570	22.721	22.234	1.00	30.72	С
ATOM	1492	0			192	59.579	22.444	22.884		35.21	0
ATOM	1493	СВ			192	57.062	24.583	22.952		23.45	C
ATOM	1494	OG1	THR	Α	192	56.717	25.961	22.735		25.10	0
ATOM	1495		THR			57.506	24.390	24.390		15.38	С
ATOM	1496	N			193	57.767	21.806	21.688		33.63	Ν
ATOM	1497	CA			193	57.962	20.358	21.811	1.00	36.84	С
ATOM	1498	С			193	59.205	19.858	21.064		39.73	С
ATOM	1499	0	ALA	А	193	59.942	19.004	21.563	1.00	41.67	0
ATOM	1500	СВ	ALA	А	193	56.708	19.616	21.299	1.00	31.93	С
ATOM	1501	N	GLN	Α	194	59.414	20.371	19.856	1.00	40.73	Ν
ATOM	1502	CA	GLN	Α	194	60.557	19.983	19.042	1.00	42.97	С
ATOM	1503	С	GLN	А	194	61.777	20.826	19.391	1.00	43.31	С
ATOM	1504	0	GLN	А	194	62.873	20.607	18.872	1.00	45.94	0
ATOM	1505	СВ	GLN			60.205	20.114	17.563		47.00	С
ATOM	1506	CG	GLN			59.064	19.189	17.139		56.83	С
ATOM	1507	CD	GLN			58.375	19.632	15.851		64.33	С
ATOM	1508	OE1				57.337	19.075	15.464		66.36	0
ATOM	1509	NE2	GLN			58.938	20.650	15.188		64.56	Ν
ATOM	1510	N	ASN	Α	195	61.573	21.783	20.288	1.00	44.74	Ν

ATOM	1511	CA	ASN	Α	195	62.623	22.678	20.755	1.00 46	.11	С
ATOM	1512	С	ASN	Α	195	63.301	23.513	19.651	1.00 43	.52	С
ATOM	1513	0			195	64.513	23.766	19.697	1.00 41	.30	0
ATOM	1514	СВ	ASN	Α	195	63.658	21.878	21.546	1.00 53	.76	С
ATOM	1515	CG	ASN	А	195	64.323	22.706	22.618	1.00 64	.83	С
ATOM	1516		ASN			65.547	22.712	22.736		.18	0
ATOM	1517		ASN			63.518	23.427	23.404		.60	N
ATOM	1518	N			196	62.499	23.967	18.686		.39	N
ATOM	1519	CA			196	62.971	24.776	17.564		.94	C
ATOM	1520	C			196	63.585	26.103	18.026		.76	C
ATOM	1521	0			196	63.055	26.771	18.908	1.00 29		0
ATOM	1521	CB			196	61.824	25.032	16.612	1.00 23		C
ATOM	1523	И			197	64.729	26.496	17.442		.71	И
ATOM	1523	CA			197	65.378	27.752	17.442	1.00 29		C
ATOM	1525	С			197	64.513	29.013	17.609		.77	С
ATOM	1526	0			197	64.578	29.966	18.395	1.00 23		0
ATOM	1527	CB			197	66.658	27.747	16.981		.41	C
ATOM	1528	CG			197	66.279	26.932	15.778		.38	C
ATOM	1529	CD			197	65.497	25.809	16.384		.22	С
ATOM	1530	N			198	63.695	28.996	16.556	1.00 27		N
ATOM	1531	CA			198	62.808	30.118	16.243	1.00 29		С
ATOM	1532	С			198	61.491	29.738	15.532	1.00 27		С
ATOM	1533	0			198	61.310	28.610	15.072		.16	0
ATOM	1534	СВ			198	63.561	31.194	15.436		.17	С
ATOM	1535	CG			198	64.036	30.700	14.071		.42	С
ATOM	1536		ASP			63.830	29.519	13.712		.62	0
ATOM	1537	OD2	ASP	Α	198	64.618	31.517	13.333	1.00 46	.36	0
ATOM	1538	N	VAL	Α	199	60.559	30.682	15.489	1.00 26	.77	N
ATOM	1539	CA	VAL	А	199	59.274	30.494	14.823	1.00 24	.31	С
ATOM	1540	С	VAL	Α	199	59.095	31.736	13.970	1.00 22		С
ATOM	1541	0	VAL	Α	199	59.045	32.849	14.498	1.00 23	.38	0
ATOM	1542	СВ	VAL	Α	199	58.104	30.408	15.825	1.00 26	.26	С
ATOM	1543	CG1	VAL	Α	199	56.776	30.438	15.079	1.00 25	.04	С
ATOM	1544	CG2	VAL	Α	199	58.202	29.137	16.649	1.00 23	.60	С
ATOM	1545	N	VAL	Α	200	59.048	31.558	12.655	1.00 21	.04	N
ATOM	1546	CA	VAL	Α	200	58.900	32.695	11.755	1.00 21	.73	С
ATOM	1547	С	VAL	Α	200	57.456	32.928	11.386	1.00 20	.35	С
ATOM	1548	0	VAL	Α	200	56.768	32.012	10.968	1.00 23	.64	0
ATOM	1549	СВ	VAL	Α	200	59.729	32.526	10.471	1.00 21	.35	С
ATOM	1550	CG1	VAL	Α	200	59.567	33.760	9.573	1.00 19	.86	С
ATOM	1551		VAL			61.189	32.298	10.822	1.00 15		С
ATOM	1552	N	VAL	Α	201	57.005	34.166	11.561	1.00 22	.28	N
ATOM	1553	CA	VAL	Α	201	55.636	34.565	11.247	1.00 16	.85	С
ATOM	1554	С			201	55.714	35.589	10.118	1.00 18		С
ATOM	1555	0			201	56.566	36.461	10.147	1.00 19		0
ATOM	1556	СВ			201	54.958	35.190	12.483	1.00 21		C
ATOM	1557		VAL			53.520	35.569	12.166	1.00 23		C
ATOM	1558		VAL			54.989	34.211	13.652	1.00 16		C
ATOM	1559	N			202	54.862	35.447	9.104	1.00 18		N
ATOM	1560	CA			202	54.838	36.359	7.957	1.00 20		C
ATOM	1561	C			202	54.323	37.740	8.365	1.00 20		C
ATOM	1562	0			202	53.381	37.839	9.153	1.00 24		0
ATOM	1563	CB			202	53.917	35.829	6.852	1.00 24		C
ATOM	1564	CG			202	54.311	34.536	6.182	1.00 20		C
ATOM	1565	CD1			202	53.470	33.686	5.525	1.00 20		C
ATOM	1566		TRP			55.635	33.995	6.012	1.00 23		C
111 011	1000	002	/-	-1	202	55.055	55.775	0.012	1.00 20	•	C

ATOM	1567	NE1	TRP	А	202	54.176	32.667	4.943	1.00	21.00	N
ATOM	1568	CE2	TRP			55.508	32.824	5.224		21.04	С
ATOM	1569	CE3	TRP	Α	202	56.917	34.388	6.439	1.00	25.98	С
ATOM	1570	CZ2	TRP	Α	202	56.608	32.039	4.848	1.00	19.21	С
ATOM	1571	CZ3	TRP	Α	202	58.016	33.606	6.064	1.00	26.79	С
ATOM	1572	CH2	TRP			57.849	32.445	5.273	1.00		С
ATOM	1573	N			203	54.935	38.793	7.814		20.13	N
ATOM	1574	CA			203	54.521	40.150	8.115		18.61	С
ATOM	1575	С			203	55.409	40.898	9.101		22.58	С
ATOM	1576	0			203	56.383	40.352	9.611		23.04	0
ATOM	1577	N			204	55.049	42.148	9.391		20.41	N
ATOM	1578	CA			204	55.812	42.984	10.308	1.00		C
ATOM	1579	C			204	55.358	42.860	11.760	1.00	18.18	C
ATOM	1580	0			204	56.062	43.307	12.660	1.00		0
ATOM	1581	СВ			204	55.705	44.448	9.889	1.00	18.97	C
ATOM	1582	OG			204	54.402	44.935	10.148		21.61	0
ATOM	1583	И			205	54.173	42.291	11.980		18.60	N
ATOM	1584	CA			205	53.637	42.142	13.325		15.10	C
ATOM	1585	C			205	52.959	43.404	13.852		17.19	C
		0	GLY			52.396	43.410	14.953			0
ATOM	1586 1587				206	52.998	43.410		1.00	16.05 17.93	
ATOM		N						13.058	1.00		N
ATOM	1588	CA			206	52.395	45.752	13.445		18.27	С
ATOM	1589	С			206	50.869	45.873	13.295	1.00	18.97	С
ATOM	1590	0			206	50.257	46.691	13.989		20.39	0
ATOM	1591	CB			206	53.040	46.955	12.704		13.92	С
ATOM	1592	OG1			206	52.807	46.830	11.307		16.14	0
ATOM	1593	CG2	THR			54.532	46.996	12.927	1.00		C
ATOM	1594	N	PRO			50.233	45.085	12.390	1.00	18.42	N
ATOM	1595	CA	PRO			48.776	45.274	12.314	1.00		С
ATOM	1596	С	PRO			48.007	44.932	13.585	1.00		С
ATOM	1597	0	PRO			48.387	44.035	14.342	1.00	20.21	0
MOTA	1598	СВ	PRO			48.364	44.455	11.079	1.00	18.43	С
ATOM	1599	CG	PRO			49.516	43.549	10.817		22.93	С
ATOM	1600	CD	PRO			50.731	44.296	11.250		19.41	С
MOTA	1601	N	MET			46.985	45.735	13.867		19.69	N
MOTA	1602	CA	MET			46.167	45.558	15.060		22.89	С
MOTA	1603	С	MET			44.842	44.818	14.850	1.00		С
MOTA	1604	0			208	44.064	45.155	13.965	1.00		0
MOTA	1605	CB	MET			45.938	46.912	15.714	1.00		С
MOTA	1606	CG	MET			47.237	47.544	16.196		31.10	С
MOTA	1607	SD	MET			47.031	49.225	16.734		38.41	S
ATOM	1608	CE	MET	А	208	46.856	50.052	15.117	1.00	30.46	С
ATOM	1609	N	ARG	Α	209	44.606	43.806	15.683	1.00	24.01	N
MOTA	1610	CA	ARG	Α	209	43.404	42.986	15.609	1.00	23.35	С
ATOM	1611	С	ARG	Α	209	42.704	42.894	16.959	1.00	20.65	С
ATOM	1612	0	ARG	Α	209	43.300	43.137	17.991	1.00	23.21	0
ATOM	1613	CB	ARG	Α	209	43.752	41.574	15.127	1.00	22.36	С
ATOM	1614	CG	ARG	Α	209	44.373	41.506	13.747	1.00	22.27	С
ATOM	1615	CD	ARG	Α	209	43.478	42.171	12.721	1.00	24.97	С
ATOM	1616	NE	ARG	Α	209	43.993	42.041	11.354	1.00	24.14	N
ATOM	1617	CZ	ARG			44.450	43.048	10.612		24.93	С
MOTA	1618	NH1	ARG			44.474	44.280	11.100		19.88	N
MOTA	1619		ARG			44.845	42.828	9.364		21.66	N
ATOM	1620	N			210	41.432	42.521	16.929		20.87	N
ATOM	1621	CA			210	40.615	42.377	18.132		22.49	С
ATOM	1622	С			210	40.187	40.906	18.274		21.11	C
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Serial	No.: 10/	090,8	379		
ATOM	1623	0	GLU	Α	210
ATOM	1624	СВ	GLU	Α	210
ATOM	1625	CG	GLU	Α	210
ATOM	1626	CD	GLU	Α	210
ATOM	1627	OE1	GLU	Α	210
ATOM	1628	OE2	GLU	Α	210
ATOM	1629	N	PHE	Α	211
ATOM	1630	CA	PHE	Α	211
ATOM	1631	С	PHE	Α	211
ATOM	1632	0	PHE	Α	211
ATOM	1633	СВ	PHE	Α	211
ATOM	1634	CG	PHE	Α	211
ATOM	1635	CD1	PHE	Α	211
ATOM	1636	CD2	PHE	А	211
ATOM	1637	CE1	PHE	Α	211
ATOM	1638	CE2	PHE	А	211
ATOM	1639	CZ	PHE	Α	211
ATOM	1640	N	LEU	Α	212
ATOM	1641	CA	LEU	А	212
ATOM	1642	С	LEU	Α	212
ATOM	1643	0	LEU	Α	212
ATOM	1644	CB	LEU	Α	212
ATOM	1645	CG	LEU	А	212
ATOM	1646	CD1	LEU	А	212
ATOM	1647	CD2	LEU	Α	212
ATOM	1648	N	HIS	Α	213
ATOM	1649	CA	HIS	А	213
ATOM	1650	С	HIS	А	213
ATOM	1651	0	HIS	Α	213
ATOM	1652	СВ	HIS	Α	213
ATOM	1653	CG	HIS	Α	213
ATOM	1654	ND1	HIS	А	213
ATOM	1655	CD2	HIS	А	213
ATOM	1656	CE1	HIS	А	213
ATOM	1657	NE2	HIS	Α	213
ATOM	1658	N	VAL	А	214
ATOM	1659	CA	VAL	А	214
ATOM	1660	С	VAL	Α	214
ATOM	1661	0	VAL	Α	214
ATOM	1662	СВ	VAL	Α	214
ATOM	1663	CG1	VAL	Α	214
ATOM	1664	CG2	VAL	Α	214
ATOM	1665	N	ASP	Α	215
ATOM	1666	CA	ASP	Α	215
ATOM	1667	С	ASP	Α	215
ATOM	1668	0	ASP	Α	215
ATOM	1669	CB	ASP	A	215
ATOM	1670	CG	ASP	A	215
ATOM	1671	OD1	ASP	A	215
ATOM	1672	OD2	ASP	A	215
ATOM	1673	N	ASP	A	216
ATOM	1674	CA	ASP	A	216
ATOM	1675	С	ASP	A	216
ATOM	1676	0	ASP	A	216
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1677 CB ASP A 216

1678 CG ASP A 216

38.871 38.882 39.025 39.567 41.082 38.167 42.070 38.218 41.905 37.425 43.139 39.112 42.795 37.523 44.032 39.222 43.859 38.426 37.902 37.985 36.916 37.766 36.839 36.277 36.788 35.468 35.541 38.270 34.419 38.209 34.647 39.260 33.089 38.423	18.019 19.173 18.845 17.650 19.780 19.503 19.757 20.939 21.947 20.017 18.904 17.776 18.951 16.694 17.885 16.751 20.815 21.861 22.146 21.215 21.397 22.430 23.513 21.756	1.00 2: 1.00 2: 1.00 2: 1.00 2: 1.00 1: 1.00 2: 1.00 1: 1.00 2	1.02 2.39 5.04 6.31 8.45 6.25 9.95 2.60 6.81 8.58 8.94 0.21 8.84 1.80 0.46 1.71 2.66 1.71 2.66 9.87 1.14 9.65 0.33 0.71	
37.902 37.985 36.916 37.766 36.839 36.277 36.788 35.468 35.541 38.270 34.419 38.209 34.647 39.260 33.089 38.423 36.900 35.906 36.807 34.498 35.367 34.052 34.414 34.778 37.181 34.277 37.311 32.833 38.402 32.071 36.637 30.785 37.957 30.803 35.213 32.857	20.815 21.861 22.146 21.215 21.397 22.430 23.513 21.756 23.419 23.770 23.509 23.806 25.231 25.608 25.752 26.072 26.143 22.953 22.614 23.776 23.551 21.926 22.936 21.175 22.936 21.175 22.936 21.175 22.936 21.175 23.5010 26.1437 26.866 27.417 26.866 27.417 26.866 27.417 26.356 28.1180 26.356 25.254 25.254 25.470 26.180	1.00 2: 1.00 1: 1.00 2: 1.00 1: 1.00 2	2.66 1.98 9.87 1.14 9.65 0.98 0.33 0.71 9.28 1.03 2.30 1.04 4.69 3.82 7.73 3.37 4.29	

ATOM	1679	OD1	ASP	Α	216	33.213	37.280	28.542	1.00	33.73	0
ATOM	1680		ASP			35.041	37.858	27.466	1.00	28.98	0
ATOM	1681	N	MET			31.451	35.575	24.066	1.00	24.12	N
ATOM	1682	CA	MET			30.560	35.690	22.923	1.00	25.65	С
ATOM	1683	C	MET			29.191	35.102	23.279	1.00	25.73	C
		0	MET			28.159	35.753		1.00	24.41	0
ATOM	1684							23.078			
ATOM	1685	CB	MET			31.165	34.946	21.726		27.53	C
MOTA	1686	CG	MET			30.228	34.747	20.547		31.62	С
MOTA	1687	SD	MET			29.679	36.320	19.920		44.01	S
ATOM	1688	CE	\mathtt{MET}	Α	217	28.255	35.789	19.016	1.00	46.67	С
ATOM	1689	N	ALA	Α	218	29.195	33.879	23.812	1.00	22.79	N
ATOM	1690	CA	ALA	Α	218	27.970	33.190	24.205	1.00	21.84	С
ATOM	1691	С	ALA	Α	218	27.178	34.003	25.241	1.00	24.89	С
ATOM	1692	0	ALA			25.961	34.149	25.132	1.00	25.67	0
ATOM	1693	СВ	ALA			28.303	31.813	24.753	1.00	16.38	C
ATOM	1694	N	ALA			27.888	34.559	26.220		24.44	N
ATOM	1695	CA	ALA			27.273	35.360	27.270		23.73	C
										25.50	C
ATOM	1696	С	ALA			26.568	36.576	26.686			
ATOM	1697	0	ALA			25.418	36.843	27.026		28.52	0
ATOM	1698	СВ	ALA			28.321	35.794	28.294		19.48	С
ATOM	1699	Ν	ALA			27.257	37.300	25.805	1.00	26.76	N
ATOM	1700	CA	ALA			26.708	38.495	25.159	1.00	26.36	С
ATOM	1701	С	ALA	Α	220	25.503	38.158	24.291	1.00	26.65	С
ATOM	1702	0	ALA	Α	220	24.544	38.926	24.230	1.00	29.06	0
ATOM	1703	СВ	ALA	Α	220	27.772	39.190	24.329	1.00	19.93	С
ATOM	1704	N	SER	Α	221	25.557	37.001	23.637	1.00	25.33	N
ATOM	1705	CA	SER	А	221	24.470	36.539	22.778		25.73	С
ATOM	1706	C	SER			23.191	36.321	23.592		24.91	C
ATOM	1707	0	SER			22.110	36.784	23.212	1.00		0
ATOM	1708		SER			24.869	35.234	22.084	1.00	21.96	C
		CB	SER								
ATOM	1709	OG				25.940	35.450	21.190	1.00	28.74	0
ATOM	1710	N	ILE			23.327	35.590	24.697	1.00	25.18	N
ATOM	1711	CA	ILE			22.217	35.298	25.594	1.00		C
ATOM	1712	С	ILE			21.694	36.595	26.211		27.95	С
MOTA	1713	0	ILE			20.487	36.760	26.377	1.00	31.54	0
ATOM	1714	CB	ILE	Α	222	22.656	34.313	26.693	1.00	26.29	С
ATOM	1715	CG1	ILE	Α	222	23.061	32.983	26.041	1.00	25.32	С
ATOM	1716	CG2	ILE	Α	222	21.539	34.109	27.717	1.00	21.77	С
ATOM	1717	CD1	ILE	Α	222	23.872	32.066	26.932	1.00	27.56	С
ATOM	1718	N	HIS	Α	223	22.604	37.528	26.490	1.00	26.17	N
ATOM	1719	CA	HIS			22.250	38.818	27.067		25.32	С
ATOM	1720	С			223	21.360	39.592	26.088		29.35	C
ATOM	1721	0			223	20.286	40.071	26.457		29.65	0
ATOM	1722	СВ			223	23.520	39.620	27.383		22.98	C
ATOM	1723	CG	HIS			23.258	41.011	27.883		25.35	С
ATOM	1724		HIS			23.116	41.310	29.220		26.58	N
ATOM	1725		HIS			23.104	42.183	27.220		24.11	C
MOTA	1726		HIS			22.886	42.604	29.359		25.33	С
MOTA	1727	NE2	HIS			22.872	43.157	28.160		23.16	N
ATOM	1728	N	VAL			21.824	39.715	24.845		28.95	N
MOTA	1729	CA	VAL	Α	224	21.081	40.414	23.800	1.00	25.81	С
ATOM	1730	С	VAL	Α	224	19.742	39.718	23.519	1.00	26.93	С
ATOM	1731	0	VAL			18.711	40.381	23.395	1.00	27.47	0
ATOM	1732	СВ	VAL			21.924	40.536	22.504		26.98	С
ATOM	1733		VAL			21.064	41.047	21.332		23.82	C
ATOM	1734		VAL			23.101	41.482	22.746		22.87	C
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ATOM	1735	N	MET	Α	225	19.754	38.388	23.449	1.00 25.71	N
ATOM	1736	CA	MET	Α	225	18.532	37.622	23.214	1.00 26.60	С
ATOM	1737	С	MET	Α	225	17.466	37.875	24.302	1.00 30.38	С
ATOM	1738	0	MET	Α	225	16.289	38.069	24.003	1.00 29.38	0
ATOM	1739	СВ	MET	Α	225	18.860	36.131	23.181	1.00 24.01	С
ATOM	1740	CG	MET	Α	225	17.647	35.234	23.091	1.00 22.08	С
MOTA	1741	SD	MET	Α	225	16.751	35.402	21.544	1.00 26.66	S
MOTA	1742	CE	MET	Α	225	16.662	33.712	20.994	1.00 15.44	С
MOTA	1743	N	GLU	Α	226	17.902	37.915	25.558	1.00 30.39	N
MOTA	1744	CA	GLU	Α	226	16.996	38.092	26.686	1.00 31.31	С
MOTA	1745	С	GLU	Α	226	16.658	39.503	27.120	1.00 32.01	С
ATOM	1746	0	GLU	Α	226	15.851	39.694	28.020	1.00 35.73	0
MOTA	1747	CB			226	17.480	37.262	27.867	1.00 28.65	С
MOTA	1748	CG	GLU	Α	226	17.387	35.790	27.561	1.00 27.91	С
ATOM	1749	CD			226	17.943	34.917	28.649	1.00 33.83	С
MOTA	1750	OE1			226	18.624	35.438	29.563	1.00 33.18	0
MOTA	1751	OE2	GLU			17.703	33.695	28.574	1.00 34.27	0
MOTA	1752	N			227	17.242	40.491	26.462	1.00 32.89	N
MOTA	1753	CA	LEU			16.963	41.892	26.769	1.00 33.35	С
MOTA	1754	С			227	15.474	42.160	26.500	1.00 35.07	С
MOTA	1755	0			227	14.854	41.497	25.656	1.00 31.47	0
MOTA	1756	СВ			227	17.787	42.779	25.833	1.00 34.51	С
ATOM	1757	CG			227	18.657	43.878	26.413	1.00 36.70	С
ATOM	1758	CD1	LEU			19.595	43.289	27.441	1.00 40.83	С
ATOM	1759	CD2	LEU			19.430	44.514	25.286	1.00 38.83	С
MOTA	1760	N	ALA			14.907	43.140	27.197	1.00 36.67	N
ATOM	1761	CA	ALA			13.499	43.495	26.993	1.00 37.05	С
ATOM	1762	С	ALA			13.354	44.095	25.596	1.00 34.00	С
ATOM	1763	0	ALA			14.185	44.903	25.173	1.00 32.74	0
ATOM	1764	СВ	ALA			13.032	44.504	28.055	1.00 32.56	С
ATOM	1765	Ν			229	12.293	43.705	24.896	1.00 32.47	N
ATOM	1766	CA	HIS			12.037	44.197	23.549	1.00 34.11	С
ATOM	1767	С			229	12.073	45.717	23.434	1.00 33.05	С
ATOM	1768	0	HIS			12.669	46.234	22.491	1.00 35.43	0
ATOM	1769	CB			229	10.708	43.666	23.020	1.00 35.19	С
ATOM	1770	CG			229	10.559	43.798	21.538	1.00 39.63	С
ATOM	1771	ND1			229	9.396	44.235	20.941	1.00 40.64	И
ATOM	1772			A		11.427	43.543	20.529	1.00 38.95	С
ATOM	1773		HIS			9.554	44.240	19.629	1.00 42.35	C
ATOM	1774		HIS			10.778	43.825	19.353	1.00 37.81	N
ATOM	1775 1776	N			230 230	11.487 11.477	46.426	24.405 24.382	1.00 33.10	И
ATOM	1777	CA C			230	12.872	47.896 48.463	24.500	1.00 35.45 1.00 30.25	C
ATOM ATOM	1778	0			230	13.160	49.511	23.922	1.00 30.23	0
	1779	CB			230	10.645	48.503	25.513	1.00 42.34	C
ATOM ATOM	1780	CG			230	9.312	47.851	25.753	1.00 42.34	C
ATOM	1781	CD			230	9.259	47.051	27.102	1.00 69.92	C
ATOM	1782		GLU			9.966	47.606	28.042	1.00 72.25	0
ATOM	1783		GLU			8.508	46.164	27.222	1.00 75.41	0
ATOM	1784	N	VAL			13.711	47.804	25.297	1.00 25.92	И
ATOM	1785	CA	VAL			15.088	48.244	25.496	1.00 27.64	C
ATOM	1786	C	VAL			15.922	48.063	24.224	1.00 27.04	C
ATOM	1787	0	VAL			16.743	48.920	23.876	1.00 27.34	0
ATOM	1788	СВ	VAL			15.736	47.499	26.670	1.00 30.32	C
ATOM	1789		VAL			17.209	47.882	26.794	1.00 29.06	C
ATOM	1790		VAL			14.984	47.823	27.966	1.00 29.47	C
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ATOM	1791	N	TRP	Α	232	15.676	46.954	23.526	1.00 27.62	N
ATOM	1792	CA	TRP	Α	232	16.361	46.634	22.274	1.00 27.79	С
ATOM	1793	С	TRP	Α	232	15.939	47.590	21.146	1.00 28.62	С
MOTA	1794	0	TRP	Α	232	16.788	48.094	20.410	1.00 27.71	0
ATOM	1795	CB	TRP	Α	232	16.064	45.188	21.877	1.00 27.06	С
ATOM	1796	CG	TRP	Α	232	16.727	44.743	20.601	1.00 30.83	С
ATOM	1797	CD1	TRP	Α	232	18.028	44.359	20.451	1.00 29.38	С
ATOM	1798	CD2	TRP	Α	232	16.121	44.628	19.304	1.00 28.58	С
ATOM	1799	NE1	TRP	А	232	18.271	44.013	19.146	1.00 29.58	И
ATOM	1800	CE2	TRP	Α	232	17.122	44.169	18.419	1.00 27.18	С
ATOM	1801	CE3	TRP	Α	232	14.835	44.866	18.805	1.00 28.32	С
ATOM	1802	CZ2	TRP	Α	232	16.881	43.945	17.064	1.00 22.72	С
ATOM	1803	CZ3	TRP	Α	232	14.595	44.643	17.457	1.00 30.94	С
ATOM	1804	CH2	TRP	Α	232	15.617	44.186	16.601	1.00 28.09	С
ATOM	1805	N	LEU	Α	233	14.632	47.845	21.025	1.00 27.44	N
ATOM	1806	CA	LEU	Α	233	14.108	48.749	19.998	1.00 27.68	С
ATOM	1807	С	LEU		233	14.664	50.148	20.190	1.00 28.22	С
ATOM	1808	0	LEU	Α	233	14.941	50.860	19.226	1.00 31.02	0
ATOM	1809	CB	LEU	А	233	12.583	48.813	20.068	1.00 27.39	С
ATOM	1810	CG	LEU	Α	233	11.805	47.560	19.678	1.00 24.97	С
ATOM	1811	CD1	LEU	А	233	10.369	47.738	20.094	1.00 28.86	С
ATOM	1812	CD2	LEU	Α	233	11.920	47.311	18.180	1.00 23.30	С
ATOM	1813	N	GLU	А	234	14.839	50.515	21.453	1.00 32.02	N
ATOM	1814	CA	GLU	А	234	15.344	51.820	21.852	1.00 35.27	С
ATOM	1815	С	GLU	А	234	16.803	52.020	21.454	1.00 34.15	С
ATOM	1816	0			234	17.217	53.139	21.140	1.00 33.71	0
ATOM	1817	CB			234	15.190	51.968	23.364	1.00 40.08	С
ATOM	1818	CG	GLU	Α	234	15.501	53.337	23.925	1.00 52.17	С
MOTA	1819	CD			234	15.628	53.309	25.446	1.00 63.51	С
ATOM	1820	OE1	GLU	А	234	14.722	52.758	26.117	1.00 64.39	0
ATOM	1821	OE2	GLU			16.644	53.827	25.970	1.00 68.40	0
ATOM	1822	N	ASN			17.575	50.934	21.448	1.00 35.23	И
ATOM	1823	CA	ASN			18.993	51.007	21.091	1.00 35.47	С
ATOM	1824	С	ASN			19.377	50.541	19.698	1.00 33.31	С
ATOM	1825	0	ASN			20.560	50.368	19.418	1.00 35.10	0
ATOM	1826	СВ			235	19.848	50.280	22.121	1.00 38.19	С
ATOM	1827	CG	ASN			19.905	51.013	23.435	1.00 42.27	С
ATOM	1828	OD1	ASN			19.058	50.805	24.307	1.00 42.41	0
ATOM	1829	ND2	ASN			20.890	51.901	23.578	1.00 41.04	N
ATOM	1830	Ν			236	18.383	50.300	18.848	1.00 28.54	N
ATOM	1831	CA			236	18.622	49.882	17.472	1.00 26.96	С
MOTA	1832	С			236	17.610	50.585	16.572	1.00 29.20	С
ATOM	1833	0			236	16.777	51.365	17.042	1.00 31.34	0
ATOM	1834	СВ			236	18.433	48.357	17.279	1.00 26.03	С
MOTA	1835	OG1			236	17.098	48.002	17.627	1.00 23.38	0
ATOM	1836	CG2			236	19.388	47.556	18.143	1.00 22.89	С
ATOM	1837	N			237	17.710	50.326	15.273	1.00 29.06	N
ATOM	1838	CA			237	16.791	50.884	14.291	1.00 29.54	C
ATOM	1839	С			237	16.272	49.706	13.483	1.00 30.42	C
ATOM	1840	0			237	16.981	48.732	13.278	1.00 30.34	0
ATOM	1841	CB			237	17.498	51.869	13.379	1.00 30.42	C
ATOM	1842	CG			237	17.835	53.164	14.045	1.00 38.67	C
ATOM	1843	CD			237	19.194	53.641	13.635	1.00 46.94	C
ATOM	1844	OE1				20.198	53.233	14.218	1.00 55.63	0
ATOM	1845		GLN			19.250	54.474	12.599	1.00 47.31	N
ATOM	1846	N	PK0	А	238	15.033	49.792	12.985	1.00 31.03	N

ATOM	1847	CA	PRO	Α	238	14.	457	48.693	12.	206	1.00	27.75	5 C
MOTA	1848	С	PRO	Α	238	15.	306	48.183	11.	050	1.00	26.12	2 C
MOTA	1849	0	PRO	Α	238	15.	328	46.978	10.	783	1.00	26.87	7 0
MOTA	1850	СВ	PRO			13.	134	49.284		724	1.00	30.90	
ATOM	1851	CG	PRO			12.	769	50.220		847		31.50	
ATOM	1852	CD	PRO			14.	082	50.911		880		31.48	
MOTA	1853	N	MET				996	49.086		364		19.01	
MOTA	1854	CA	MET			16.	810	48.665	9.	236	1.00		
MOTA	1855	С	MET			18.	317	48.745		492	1.00		
ATOM	1856	0	MET	Α	239		117	48.762	8.	562	1.00		
MOTA	1857	СВ	MET			16.	406	49.427	7.	971	1.00	19.82	
ATOM	1858	CG	MET			14.	969	49.130		518		22.16	
ATOM	1859	SD	MET				467	50.055		063		23.20	
ATOM	1860	CE	MET				938	48.921		744		22.85	
MOTA	1861	N	LEU				686	48.789		766		17.6	
ATOM	1862	CA	LEU				080	48.810		197		18.19	
ATOM	1863	С	LEU				999	48.244		614	1.00		
ATOM	1864	0	LEU				310	48.918		595	1.00		
ATOM	1865	СВ	LEU				634	50.236		205		17.63	
ATOM	1866	CG	LEU				169	50.283		243		20.48	
ATOM	1867	CD1	LEU				717	49.854		888		20.33	
ATOM	1868	CD2	LEU				658	51.677		592		23.50	
ATOM	1869	Ν	SER				580	46.985		699		18.42	
ATOM	1870	CA	SER				346	46.301		975	1.00		
ATOM	1871	С	SER				448	45.447		608		22.6	
MOTA	1872	0	SER				302	45.021		757	1.00		
ATOM	1873	СВ	SER				119	45.410		814	1.00	19.60	
ATOM	1874	OG	SER				365	44.419		822		19.00	
ATOM	1875	Ν	HIS				502	45.135		857		21.08	
ATOM	1876	CA	HIS				562	44.286		386		19.45	
ATOM	1877	C	HIS				374	44.985		464		21.19	
ATOM	1878	0	HIS				468	46.210		485		19.25	
ATOM	1879	CB	HIS				470	43.789		251	1.00	18.39	
ATOM	1880	CG	HIS				070	44.889		435		21.00	
ATOM	1881	ND1	HIS				394	45.258		540	1.00	24.5	
ATOM	1882	CD2	HIS				524	45.705		504	1.00	18.15	
ATOM	1883	CE1	HIS				640	46.253		706	1.00	20.48	
ATOM	1884	NE2	HIS				521	46.543		066		25.00	
ATOM	1885	N			243		919	44.198		387		24.11	
ATOM	1886	CA			243		742	44.733		471		24.72	
ATOM	1887	С			243		132	44.086		458		23.73	
ATOM	1888	0			243		256	42.861		438		19.93	
ATOM	1889	CB			243		064	44.509		845		25.83 27.38	
ATOM	1890	CG1			243		759	45.313		910			
ATOM	1891	CG2			243		001	44.911		992		21.68	
ATOM	1892	CD1	ILE				816	44.845		991		27.41	
ATOM	1893	N	ASN				168	44.923		403		22.92	
ATOM	1894	CA			244		556	44.458		405		22.89	
ATOM	1895	С	ASN				874	43.824		753		23.74	
ATOM	1896	0 CB	ASN				457	44.336		794			
ATOM	1897 1898	CB CG	ASN ASN				.530 .581	45.627 46.082		177 727		18.05	
ATOM ATOM	1899		ASN				221	45.336		805		18.82	
ATOM	1900		ASN				.033	47.317		517		16.28	
ATOM	1900	NDZ N			245		602	42.713		734		21.85	
ATOM	1901	CA	VAL				992	42.713		967		21.80	
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ATOM	1903	С	VAL	Α	245	31.513	41.812	19.920	1.00 22.59	С
ATOM	1904	0	VAL	Α	245	32.026	41.140	19.023	1.00 21.49	0
ATOM	1905	СВ	VAL	Α	245	29.235	40.682	20.145	1.00 23.76	С
ATOM	1906					29.683	39.976	21.421	1.00 24.00	C
ATOM	1907		VAL			27.742	40.916	20.200	1.00 21.35	С
ATOM	1908	Ν	GLY	Α	246	32.222	42.438	20.857	1.00 22.67	N
ATOM	1909	CA	GLY	Α	246	33.669	42.322	20.930	1.00 24.28	С
ATOM	1910	С	GLY	Α	246	34.195	42.991	22.183	1.00 24.67	С
ATOM	1911	0			246	33.422	43.310	23.084	1.00 25.15	0
ATOM	1912				247	35.503	43.225	22.238	1.00 27.41	N
		N								
ATOM	1913	CA			247	36.130	43.859	23.406	1.00 29.81	С
ATOM	1914	С			247	36.382	45.365	23.225	1.00 30.14	С
ATOM	1915	0	THR	Α	247	36.457	46.109	24.204	1.00 30.54	0
ATOM	1916	CB	THR	Α	247	37.488	43.190	23.760	1.00 27.35	С
ATOM	1917	OG1	THR	Α	2.47	38.407	43.386	22.683	1.00 28.01	0
ATOM	1918	CG2	THR			37.317	41.696	24.002	1.00 24.20	C
ATOM	1919	N			248	36.522	45.800	21.975	1.00 31.26	N
ATOM	1920	CA			248	36.786	47.201	21.690	1.00 31.54	С
MOTA	1921	С	GLY	Α	248	38.254	47.544	21.899	1.00 33.40	С
ATOM	1922	0	GLY	Α	248	38.674	48.692	21.768	1.00 33.52	0
ATOM	1923	N	VAL	Α	249	39.035	46.529	22.246	1.00 36.86	N
ATOM	1924	CA	VAL			40.463	46.682	22.493	1.00 33.66	С
ATOM	1925	C	VAL			41.214	45.934	21.413	1.00 31.50	C
			VAL							
ATOM	1926	0				40.867	44.808	21.076	1.00 29.41	0
ATOM	1927	СВ	VAL			40.853	46.064	23.854	1.00 31.90	С
ATOM	1928	CG1	VAL	Α	249	42.351	46.142	24.066	1.00 35.19	С
ATOM	1929	CG2	VAL	Α	249	40.120	46.774	24.976	1.00 34.14	С
ATOM	1930	N	ASP	Α	250	42.205	46.583	20.824	1.00 29.71	N
ATOM	1931	CA	ASP			43.009	45.915	19.821	1.00 29.00	С
ATOM	1932	С	ASP			44.439	45.705	20.324	1.00 30.13	C
									1.00 28.85	
ATOM	1933	0	ASP			44.849	46.277	21.343		0
MOTA	1934	СВ	ASP			42.985	46.665	18.481	1.00 32.68	С
ATOM	1935	CG	ASP			43.353	48.140	18.602	1.00 37.15	С
ATOM	1936	OD1	ASP	Α	250	43.761	48.607	19.691	1.00 41.60	0
ATOM	1937	OD2	ASP	Α	250	43.228	48.839	17.573	1.00 38.27	0
ATOM	1938	N	CYS	Α	251	45.144	44.783	19.679	1.00 27.09	N
ATOM	1939	CA			251	46.527	44.500	20.012	1.00 26.39	С
ATOM	1940	C	CYS			47.207	44.065	18.725	1.00 24.62	C
			CYS						1.00 24.02	
ATOM	1941	0				46.555	43.548	17.805		0
MOTA	1942	СВ	CYS			46.644		21.107	1.00 31.27	С
ATOM	1943	SG	CYS			46.375	41.702	20.593	1.00 31.15	S
ATOM	1944	N	THR	Α	252	48.506	44.330	18.638	1.00 22.64	N
ATOM	1945	CA	THR	Α	252	49.285	43.977	17.460	1.00 17.62	С
ATOM	1946	С	THR	А	252	49.486	42.469	17.352	1.00 16.92	С
ATOM	1947	0			252	49.380	41.730	18.337	1.00 19.18	0
ATOM	1948	СВ			252	50.670	44.663	17.489	1.00 15.13	C
ATOM	1949	OG1			252	51.416	44.196	18.620	1.00 16.21	0
MOTA	1950	CG2	THR			50.515	46.170	17.601	1.00 12.20	С
ATOM	1951	N			253	49.763	42.015	16.139	1.00 19.17	N
ATOM	1952	CA	ILE	Α	253	50.029	40.598	15.897	1.00 18.46	С
ATOM	1953	С			253	51.295	40.212	16.689	1.00 19.42	С
ATOM	1954	0			253	51.404	39.099	17.211	1.00 23.05	0
	1955	CB			253	50.224	40.310	14.377	1.00 16.55	C
ATOM										
ATOM	1956		ILE			48.971	40.716	13.606	1.00 16.12	C
MOTA	1957		ILE			50.528	38.845	14.141	1.00 16.01	С
ATOM	1958	CD1	ILE	Α	253	47.705	40.184	14.230	1.00 19.29	С

ATOM	1959	N	ARG	Α	254	52.228	41.153	16.804	1.00 17.56	N
ATOM	1960	CA	ARG	Α	254	53.462	40.937	17.546	1.00 18.20	С
ATOM	1961	С	ARG	Α	254	53.115	40.625	19.005	1.00 17.58	С
ATOM	1962	0	ARG	Α	254	53.564	39.623	19.568	1.00 15.25	0
ATOM	1963	СВ	ARG	Α	254	54.342	42.191	17.406	1.00 19.12	С
ATOM	1964	CG	ARG	Α	254	55.220	42.558	18.585	1.00 23.71	С
MOTA	1965	CD	ARG	Α	254	56.626	42.051	18.456	1.00 26.61	С
MOTA	1966	NE	ARG	Α	254	57.260	42.440	17.198	1.00 27.30	N
ATOM	1967	CZ	ARG	Α	254	58.429	41.954	16.780	1.00 27.42	С
MOTA	1968	NH1	ARG	Α	254	59.105	41.092	17.532	1.00 24.96	N
ATOM	1969	NH2	ARG			58.844	42.201	15.546	1.00 27.33	N
ATOM	1970	N			255	52.254	41.446	19.593	1.00 16.75	N
ATOM	1971	CA	GLU	Α	255	51.859	41.230	20.974	1.00 18.00	С
ATOM	1972	С			255	51.137	39.902	21.168	1.00 20.69	С
ATOM	1973	0			255	51.319	39.233	22.191	1.00 21.51	0
MOTA	1974	CB			255	50.979	42.365	21.473	1.00 18.59	С
MOTA	1975	CG			255	50.433	42.080	22.862	1.00 26.70	С
ATOM	1976	CD			255	49.841	43.290	23.545	1.00 33.63	С
ATOM	1977	OE1			255	49.602	44.321	22.881	1.00 37.03	0
MOTA	1978	OE2	GLU			49.612	43.204	24.764	1.00 39.07	0
ATOM	1979	N			256	50.297	39.542	20.196	1.00 18.67	N
MOTA	1980	CA			256	49.550	38.290	20.232	1.00 17.89	С
ATOM	1981	С			256	50.494	37.083	20.199	1.00 17.20	С
ATOM	1982	0			256	50.412	36.193	21.052	1.00 19.20	0
ATOM	1983	СВ			256	48.587	38.224	19.046	1.00 15.29	С
ATOM	1984	CG			256	47.818	36.912	18.914	1.00 18.94	С
ATOM	1985	CD1	LEU			46.805	36.771	20.047	1.00 16.63	С
MOTA	1986					47.144	36.850	17.561	1.00 19.21	С
ATOM	1987	Ν	ALA			51.398	37.073	19.220	1.00 16.95	N
ATOM	1988	CA	ALA			52.372	35.993	19.050	1.00 16.80	С
ATOM	1989	С			257	53.271	35.821	20.280	1.00 17.32	C
ATOM	1990	0	ALA			53.568	34.703	20.716	1.00 19.66	0
ATOM	1991	СВ	ALA			53.228	36.277	17.813	1.00 15.44	C
ATOM	1992	N			258	53.703	36.950	20.829	1.00 18.58	N
ATOM	1993	CA			258	54.574	36.985	21.994	1.00 18.94	C
ATOM	1994	С			258	53.837	36.478	23.230	1.00 18.06	С
ATOM	1995	0	GLN			54.430	35.821	24.091	1.00 16.85	0
ATOM	1996	CB			258 258	55.052	38.424	22.204	1.00 23.68	С
ATOM	1997	CG	_			56.528	38.593	22.420	1.00 30.17	С
ATOM	1998	CD OE1	GLN			57.394	38.018	21.303	1.00 29.06	С
ATOM	1999	OE1 NE2	GLN GLN			57.537	38.599	20.219 21.600	1.00 25.75 1.00 26.88	0
ATOM ATOM	2000 2001	NEZ N			259	58.037 52.544	36.906 36.784	23.317	1.00 28.69	N
ATOM	2001	CA			259	51.733	36.734	24.458	1.00 18.69	И С
ATOM	2002	CA			259	51.492	34.821	24.365	1.00 21.07	C
ATOM	2003	0			259	51.492	34.107	25.365	1.00 21.07	0
ATOM	2004	CB			259	50.390	37.119	24.559	1.00 24.98	C
ATOM	2005	OG1			259	50.661	38.509	24.798	1.00 17.98	0
ATOM	2007	CG2			259	49.531	36.582	25.694	1.00 19.39	C
ATOM	2007	N N			260	51.225	34.334	23.153	1.00 12.32	И
ATOM	2009	CA			260	51.020	32.906	22.928	1.00 20.32	C
ATOM	2010	C			260	52.314	32.163	23.264	1.00 18.29	C
ATOM	2010	0			260	52.276	31.133	23.935	1.00 23.03	0
ATOM	2012	СВ			260	50.590	32.626	21.467	1.00 23.03	C
ATOM	2012		ILE			49.154	33.103	21.266	1.00 17.88	C
ATOM	2013		ILE			50.718	31.144	21.130	1.00 17.63	C
		552			_ 0 0	55.150		0	_,,,,	C

ATOM	2015	CD1	ILE	Α	260	48.645	32.954	19.845	1.00 19.67	С
ATOM	2016	N	ALA	Α	261	53.453	32.700	22.828	1.00 15.86	N
MOTA	2017	CA	ALA	Α	261	54.751	32.092	23.114	1.00 15.07	С
ATOM	2018	С	ALA	Α	261	54.900	31.901	24.617	1.00 18.31	С
ATOM	2019	0	ALA	Α	261	55.300	30.829	25.078	1.00 21.16	0
ATOM	2020	СВ	ALA	Α	261	55.876	32.963	22.595	1.00 12.21	С
ATOM	2021	N	LYS	Α	262	54.567	32.939	25.378	1.00 18.14	N
ATOM	2022	CA	LYS			54.655	32.884	26.831	1.00 16.87	С
ATOM	2023	С	LYS			53.698	31.834	27.421	1.00 21.94	С
ATOM	2024	0	LYS			54.099	31.024	28.258	1.00 23.55	0
ATOM	2025	СВ	LYS			54.359	34.262	27.424	1.00 20.72	С
ATOM	2026	CG	LYS			54.286	34.286	28.956	1.00 25.19	С
ATOM	2027	CD	LYS			53.674	35.582	29.460	1.00 37.48	C
ATOM	2028	CE	LYS			53.272	35.495	30.935	1.00 44.21	C
ATOM	2029	NΖ			262	52.634	36.770	31.409	1.00 48.78	N
ATOM	2030	N	VAL			52.438	31.857	26.988	1.00 19.95	N
ATOM	2031	CA	VAL			51.420	30.919	27.460	1.00 20.58	C
ATOM	2032	С	VAL			51.831	29.448	27.238	1.00 22.00	C
ATOM	2033	0	VAL			51.623	28.581	28.088	1.00 19.34	0
ATOM	2034 2035	CB			263	50.046 49.056	31.218	26.754	1.00 19.39 1.00 16.70	С
ATOM ATOM	2035	CG1	VAL VAL			49.056	30.073 32.496	26.936 27.312	1.00 17.88	C
ATOM	2037	N N			264	52.436	29.185	26.091	1.00 20.64	N
ATOM	2037	CA	VAL			52.849	27.847	25.732	1.00 20.04	C
ATOM	2039	C	VAL			54.170	27.409	26.390	1.00 24.03	C
ATOM	2040	0	VAL			54.443	26.216	26.507	1.00 25.06	0
ATOM	2040	СВ	VAL			52.892	27.738	24.194	1.00 20.52	C
ATOM	2042	CG1				53.616	26.499	23.751	1.00 27.46	C
ATOM	2043		VAL			51.465	27.734	23.656	1.00 19.97	C
ATOM	2044	N			265	54.940	28.371	26.891	1.00 22.67	N
ATOM	2045	CA			265	56.213	28.057	27.509	1.00 23.29	C
ATOM	2046	С			265	57.329	27.947	26.483	1.00 25.65	C
ATOM	2047	0			265	58.329	27.264	26.714	1.00 26.53	0
ATOM	2048	N			266	57.156	28.612	25.343	1.00 25.58	N
ATOM	2049	CA			266	58.152	28.584	24.278	1.00 24.54	С
ATOM	2050	С	TYR	Α	266	59.340	29.454	24.673	1.00 24.99	С
ATOM	2051	0	TYR	Α	266	59.156	30.584	25.127	1.00 24.52	0
ATOM	2052	СВ	TYR	Α	266	57.542	29.073	22.963	1.00 22.49	С
ATOM	2053	CG	TYR	А	266	58.510	29.051	21.807	1.00 19.00	С
MOTA	2054	CD1	TYR	Α	266	59.169	27.871	21.451	1.00 22.48	С
ATOM	2055	CD2	TYR	Α	266	58.788	30.209	21.084	1.00 17.81	С
ATOM	2056	CE1			266	60.089	27.844	20.402	1.00 20.47	С
MOTA	2057	CE2			266	59.703	30.195	20.033	1.00 17.70	С
ATOM	2058	CZ			266	60.350	29.008	19.700	1.00 21.27	С
ATOM	2059	ОН			266	61.263	28.983	18.669	1.00 22.27	0
MOTA	2060	Ν			267	60.551	28.920	24.509	1.00 25.64	N
ATOM	2061	CA			267	61.766	29.647	24.881	1.00 27.14	C
ATOM	2062	С			267	62.572	30.148	23.699	1.00 26.30	C
ATOM	2063	0			267	63.564	30.852	23.881	1.00 30.44	0
ATOM	2064	CB			267	62.684	28.773	25.733	1.00 28.63	С
ATOM	2065	CG			267	62.115	28.330	27.052	1.00 30.53	С
ATOM	2066	CD			267	61.994	29.458	28.010	1.00 27.17	C
ATOM	2067	CE N7			267	61.705	28.911	29.387	1.00 33.31	С
ATOM ATOM	2068 2069	NZ N			267 268	61.524 62.185	30.028 29.753	30.362 22.496	1.00 40.44 1.00 25.10	N N
ATOM	2009	CA			268	62.183	30.201	21.320	1.00 23.10	C
AIOM	2010	CA	GTI	А	200	04.300	JU. ZUI	Z + • J Z U	1.00 43.33	C

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ATOM	2071	С	CTV A	269	62.619	31.650	20.978	1.00 24.88
				268				
ATOM	2072 2073	0		269		32.417	21.792	1.00 24.02
ATOM		N				32.022	19.750	1.00 24.86
ATOM	2074	CA		269		33.377	19.286	1.00 25.94
ATOM	2075	С		269		33.484	18.342	1.00 23.02
MOTA	2076	0	ARG A	269		32.607	17.526	1.00 20.55
MOTA	2077	СВ	ARG A	269	63.994	33.904	18.593	1.00 27.44
MOTA	2078	CG	ARG A	269	65.000	34.525	19.557	1.00 37.34
ATOM	2079	CD	ARG A	269	65.858	35.587	18.860	1.00 50.39
ATOM	2080	NE	ARG A	269	65.068	36.564	18.088	1.00 59.23
ATOM	2081	CZ	ARG A	269	64.196	37.440	18.604	1.00 60.47
MOTA	2082			269		37.504	19.922	1.00 58.26
MOTA	2083	NH2	ARG A	269	63.537	38.270	17.793	1.00 55.93
MOTA	2084	N	VAL A	270	60.766	34.535	18.511	1.00 23.13
ATOM	2085	CA	VAL A	270	59.632	34.792	17.630	1.00 23.60
MOTA	2086	С	VAL A	270	60.178	35.771	16.588	1.00 23.02
MOTA	2087	0	VAL A	270	60.712	36.819	16.924	1.00 26.13
ATOM	2088	СВ	VAL A	270 270	58.433	35.422	18.387	1.00 26.15
ATOM	2089	CG1	VAL A	270	57.320	35.802	17.392	1.00 19.20
ATOM	2090	CG2	VAL A	270	57.906	34.440		
ATOM	2091	N	VAL A	271	60.098			
ATOM	2092			271			14.269	
ATOM	2093	С		271			13.235	1.00 24.79
ATOM	2094	0	VAL A	271	58.837	35.786	12.727	1.00 27.62
ATOM	2095	СВ	VAT. A	271	61.826	35.556	13.538	1.00 24.40
ATOM	2096		VAT. A	271	62.425	36.465	12.463	1.00 21.77
ATOM	2097	CG2	VAT. A	271 271	62.902	35.124	14.547	1.00 17.00
ATOM	2098	N	PHE A	272	59.473	37.939	12.948	1.00 25.21
ATOM	2099	CA	PHE A	272	58.538	38.433	11.943	1.00 22.09
ATOM	2100	C	PHE A	272	59.288	38.722	10.666	1.00 22.63
ATOM	2101	0		272		39.426		1.00 26.84
ATOM	2102	СВ		272		39.675	12.434	1.00 17.47
ATOM	2103	CG	PHE A	272	56.657	39.352	13.332	1.00 19.08
ATOM	2104		PHE A	272	55.397	39.094	12.798	1.00 20.72
ATOM	2105	CD2	PHE A	272	56.845		14.702	1.00 14.99
ATOM	2106	CE1	PHE A	272	56.845 54.341	38.712	13.622	1.00 22.36
ATOM	2107	CE2	PHE A	272	55.799	38.846		
ATOM	2108		PHE A		54.545			
ATOM	2109	N	ASP A		58.859	38.087	9.585	1.00 21.71
ATOM	2110	CA	ASP A		59.479	38.276	8.291	1.00 21.05
ATOM	2111	С	ASP A		58.739	39.419	7.608	1.00 21.52
ATOM	2112	0	ASP A		57.683	39.221	7.005	1.00 23.03
ATOM	2113	СВ	ASP A		59.380	36.984	7.477	1.00 22.70
ATOM	2114	CG	ASP A	273	60.125	37.062	6.159	1.00 23.85
ATOM	2115	OD1	ASP A		60.469	38.175	5.712	1.00 25.22
ATOM	2116		ASP A		60.359	36.005	5.550	1.00 31.35
ATOM	2117	N	ALA A		59.306	40.618	7.701	1.00 23.17
ATOM	2118	CA	ALA A		58.698	41.820	7.119	1.00 22.99
ATOM	2119	С	ALA A		58.742	41.907	5.600	1.00 22.46
ATOM	2120	0	ALA A		58.314	42.906	5.032	1.00 23.10
ATOM	2121	СВ	ALA A		59.321	43.077	7.731	1.00 21.48
ATOM	2122	N	SER A		59.316	40.899	4.946	1.00 22.96
ATOM	2123	CA	SER A		59.375	40.895	3.487	1.00 25.11
ATOM	2124	С	SER A		58.027	40.422	2.915	1.00 25.06
ATOM	2125	0	SER A		57.810	40.458	1.707	1.00 29.16
ATOM	2126	СВ	SER A		60.523	40.008	2.987	1.00 23.74

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8.291 1.00 21.05
7.608 1.00 21.52
7.005 1.00 23.03
7.477 1.00 22.70
6.159 1.00 23.85
5.712 1.00 25.22
5.550 1.00 31.35
7.701 1.00 23.17
7.119 1.00 22.99
5.600 1.00 22.46 С 7 N С 9 С 0 4 С С 0 0 5 Ν 0 С 7 5.600 1.00 22.46 С 5.032 1.00 23.10 0 7.731 1.00 21.48 С 9 4.946 1.00 22.96 N 3.487 1.00 25.11 С 5 2.915 1.00 25.06 С 8 1.707 1.00 29.16 0

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ATOM	2127	OG	SER	Α	275	60.
ATOM	2128	N	LYS	Α	276	57.
ATOM	2129	CA	LYS	Α	276	55.
ATOM	2130	С	LYS	Α	276	54.
ATOM	2131	0	LYS	Α	276	55.
ATOM	2132	СВ	LYS	Α	276	55.
ATOM	2133	CG	LYS	Α	276	56.
ATOM	2134	CD	LYS	Α	276	56.
ATOM	2135	CE	LYS	Α	276	57.
ATOM	2136	NΖ	LYS	Α	276	57.
ATOM	2137	N	PRO	Α	277	53.
ATOM	2138	CA	PRO	Α	277	52.
ATOM	2139	С	PRO	А	277	51.
ATOM	2140	0	PRO	Α	277	51.
ATOM	2141	СВ	PRO	Α	277	52.
ATOM	2142	CG	PRO	A	277	52.
ATOM	2143	CD	PRO	A	277	53.
ATOM	2144	N	ASP	A	278	51.
ATOM	2145	CA	ASP	A	278	50.
ATOM	2146	С	ASP	A	278	49.
ATOM	2147	0	ASP	A	278	49.
ATOM	2148	СВ	ASP	A	278	50.
ATOM	2149	CG	ASP	A	278	52.
ATOM	2150	OD1	ASP	Α	278	52.
ATOM	2151	OD2	ASP	A	278	52.
ATOM	2152	N	GLY	Α	279	48.
ATOM	2153	CA	GLY	Α	279	46.
ATOM	2154	C	GLY	Α	279	46.
ATOM	2155	0	GLY	A	279	47.
ATOM	2156	N	THR	A	280	45.
ATOM	2157	CA	THR	A	280	44.
ATOM	2158	C	THR	Α	280	45.
ATOM	2159	0	THR	Α	280	45.
ATOM	2160	СВ	THR	A	280	43.
ATOM	2161	OG1	THR	A	280	42.
ATOM	2162	CG2	THR	Α	280	42.
ATOM	2163	N	PRO	A	281	45.
ATOM	2164	CA	PRO	A	281	46.
ATOM	2165	C	PRO		281	45.
ATOM	2166	0	PRO	A	281	46.
ATOM	2167	СВ	PRO	A	281	46.
ATOM	2168	CG	PRO	Α	281	46.
ATOM	2169	CD	PRO	Α	281	45.
ATOM	2170	N	ARG	A	282	44.
ATOM	2171	CA	ARG	A	282	43.
ATOM	2172	C	ARG	Α	282	42.
ATOM	2173	0	ARG	Α	282	41.
ATOM	2174	СВ	ARG	Α	282	43.
ATOM	2175	CG	ARG	A	282	43.
ATOM	2176	CD	ARG	A	282	43.
ATOM	2177	NE	ARG	A	282	42.
ATOM	2178	CZ	ARG	A	282	42.
ATOM	2179	NH1	ARG	A	282	41.
ATOM	2180	NH2	ARG	A	282	41.
ATOM	2181	N	LYS	A		41.
ATOM	2182	CA	LYS	A		40.
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50.223	38.632	3.132	1.00 23.99	
	39.965	3.803	1.00 22.01	
	39.502	3.439	1.00 22.01	
	40.632	3.803		
	41.299	4.816	1.00 23.25	
	38.259	4.234	1.00 19.15	
56.423	37.122	4.070	1.00 23.43	
56.360	36.545	2.694	1.00 19.29	
57.294	35.377	2.575	1.00 19.32	
57.030	34.700	1.281	1.00 20.62	
53.828	40.848	2.988	1.00 27.74	
52.840	41.909	3.212	1.00 25.57	
51.945	41.721	4.432	1.00 25.62	
51.745	40.606	4.917	1.00 25.00	
52.021	41.871	1.931	1.00 26.37	
52.032	40.386	1.592	1.00 28.94	
53.485	40.046	1.796	1.00 28.55	
51.466	42.839	4.961	1.00 25.93	
	42.823		1.00 27.14	
	42.983		1.00 28.69	
	43.296			
	44.016			
	43.886			
52.269	42.841	8.484	1.00 30.78	
52.861	44.856	7.849	1.00 31.84	
18.150	42.755 42.959	6.346 5.891	1.00 33.85	
16 107	44.415	6.207	1.00 35.02 1.00 33.99	
	45.235	6.236	1.00 33.99 1.00 33.76	
	44.753			
	46.133			
	46.438	8.147	1.00 34.05	
15.689	45.559		1.00 33.02	
13.367	46.349		1.00 36.65	
12.787	45.386	7.755	1.00 39.09	
	46.188		1.00 40.33	
	47.686	8.337	1.00 31.08	
	48.121	9.565	1.00 32.40	
15.898		10.859		
16.474	47.578	11.891	1.00 30.49	
16.894	49.621	9.320	1.00 31.76	
16.865	49.751	7.834	1.00 32.42	
15.753	48.833	7.448	1.00 29.66	
14.585	48.083	10.787	1.00 31.53	
13.754	47.995	11.974	1.00 32.15	
	47.487	11.654	1.00 30.49	
11.781	47.807	10.617	1.00 32.66	
	49.391	12.593	1.00 31.82	
	49.443	13.979	1.00 34.24	
	50.805	14.558	1.00 38.29	
12.928	50.914	15.922	1.00 41.55	
12.125	51.885	16.347	1.00 44.61	
11.725	52.836	15.508	1.00 44.61	
11.706	51.894	17.603	1.00 43.85	
	46.690	12.556	1.00 30.16	
10.486	46.150	12.357	1.00 27.63	

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ATOM	2183	С	LYS A	283	39.894	45.799	13.718	1.00 28.84
ATOM	2184	0	LYS A	283	40.387	44.905	14.408	1.00 31.61
ATOM	2185	СВ	LYS A	283	40.576	44.921	11.456	1.00 27.98
ATOM	2186	CG	LYS A	283	39.273	44.486	10.834	1.00 37.70
ATOM	2187	CD	LYS A	283	39.450	43,206	10.041	1.00 48.15
ATOM	2188	CE		283	38.117	42.477	9.870	1.00 58.89
ATOM	2189	NΖ	LYS A		38.292	41.105	9.311	1.00 63.83
ATOM	2190	N	LEU A		38.930	46.602	14.160	1.00 27.13
ATOM	2191	CA	LEU A		38.235	46.351	15.424	1.00 26.74
ATOM	2192	C	LEU A		36.846	46.975	15.391	1.00 24.56
ATOM	2193	0	LEU A		36.586	47.902	14.628	1.00 24.46
ATOM	2194	CB	LEU A		39.013	46.856	16.643	1.00 27.79
ATOM	2195	CG	LEU A		38.943	48.326	17.029	1.00 27.79
ATOM	2196	CD1	LEU A		39.421	48.471	18.456	1.00 25.87
ATOM					39.770			
	2197	CD2	LEU A			49.171	16.073	
ATOM	2198	N	LEU A		35.954	46.436	16.209	1.00 23.49
ATOM	2199	CA	LEU A		34.579	46.899	16.281	1.00 23.39
ATOM	2200	С	LEU A		34.335	47.995	17.313	1.00 25.11
ATOM	2201	0	LEU A		35.015	48.082	18.339	1.00 27.85
ATOM	2202	СВ	LEU A		33.649	45.725	16.628	1.00 17.63
ATOM	2203	CG	LEU A		33.598	44.474	15.763	1.00 15.00
ATOM	2204	CD1	LEU A		32.609	43.474	16.375	1.00 15.44
ATOM	2205	CD2	LEU A		33.204	44.850	14.349	1.00 15.47
ATOM	2206	N	ASP A		33.345	48.828	17.022	1.00 25.66
ATOM	2207	CA	ASP A		32.916	49.867	17.933	1.00 25.25
ATOM	2208	С	ASP A	286	31.832	49.112	18.720	1.00 25.87
ATOM	2209	0	ASP A	286	30.847	48.633	18.147	1.00 24.18
ATOM	2210	CB	ASP A	286	32.310	51.024	17.136	1.00 29.44
ATOM	2211	CG	ASP A	286	31.971	52.223	17.999	1.00 31.06
ATOM	2212	OD1	ASP A	286	31.528	52.034	19.149	1.00 27.73
ATOM	2213	OD2	ASP A	286	32.144	53.359	17.514	1.00 34.89
ATOM	2214	N	VAL A	287	32.042	48.949	20.019	1.00 26.35
ATOM	2215	CA	VAL A	287	31.084	48.220	20.831	1.00 25.91
ATOM	2216	С	VAL A	287	30.259	49.097	21.771	1.00 27.64
ATOM	2217	0	VAL A	287	29.694	48.610	22.756	1.00 29.27
ATOM	2218	СВ	VAL A	287	31.787	47.078	21.593	1.00 28.95
ATOM	2219	CG1	VAL A	287	32.270	46.023	20.600	1.00 27.85
ATOM	2220	CG2	VAL A	287	32.977	47.622	22.367	1.00 29.30
ATOM	2221	N	THR A	288	30.154	50.379	21.419	1.00 29.70
ATOM	2222	CA	THR A	288	29.390	51.380	22.177	1.00 28.48
ATOM	2223	С	THR A		27.951	50.932	22.436	1.00 29.29
ATOM	2224	0	THR A		27.478	50.972	23.568	1.00 32.29
ATOM	2225	СВ	THR A		29.325	52.707	21.406	1.00 28.48
ATOM	2226	OG1	THR A		30.637	53.261	21.288	1.00 27.75
ATOM	2227	CG2	THR A		28.423	53.690	22.115	1.00 31.20
ATOM	2228	N	ARG A		27.273	50.512	21.370	1.00 28.56
ATOM	2229	CA	ARG A		25.893	50.051	21.425	1.00 25.44
	2230	C	ARG A			48.907		
ATOM		0			25.736 24.858		22.433 23.299	1.00 28.20 1.00 27.08
ATOM	2231		ARG A			48.936		
ATOM	2232	CB	ARG A		25.454	49.614	20.023	1.00 24.80
ATOM	2233	CG	ARG A		23.963	49.476	19.838	1.00 28.12
ATOM	2234	CD	ARG A		23.585	48.976	18.447	1.00 30.30
ATOM	2235	NE	ARG A		23.274	50.048	17.491	1.00 31.95
ATOM	2236	CZ	ARG A		22.534	49.877	16.388	1.00 36.11
ATOM	2237		ARG A		22.023	48.681	16.100	1.00 31.94
ATOM	2238	NH2	ARG A	289	22.308	50.897	15.555	1.00 35.50

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ATOM	2240	CA	LEU	Α	290
ATOM	2241	С	LEU	Α	290
ATOM	2242	0	LEU	Α	290
ATOM	2243	СВ	LEU	Α	290
ATOM	2244	CG	LEU	A	290
ATOM	2245	CD1	LEU	A	290
ATOM	2246	CD2	LEU	A	290
ATOM	2247	N	HIS	A	291
ATOM	2248	CA	HIS	A	291
ATOM	2249	C	HIS	Α	291
ATOM	2250	0	HIS	Α	291
ATOM	2251	СВ	HIS	Α	291
ATOM	2252	CG	HIS	A	291
ATOM	2253	ND1	HIS	A	291
ATOM	2254	CD2	HIS	A	291
ATOM	2255	CE1	HIS	A	291
ATOM	2256	NE2	HIS	A	291
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ATOM	2258	CA	GLN	A	292
ATOM	2259	CA	GLN	A	292
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ATOM	2263	OE1	GLN	A	292
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ATOM		NE2	GLN	A	292
ATOM	2266 2267	N	LEU	A	293
ATOM		CA	LEU	A	293
ATOM	2268	С	LEU	A	293
ATOM	2269	0	LEU	A	293
ATOM	2270	CB	LEU	A	293
ATOM	2271	CG	LEU	A	293
ATOM	2272	CD1	LEU	A	293
ATOM	2273	CD2	LEU	A	293
ATOM	2274	N	GLY	A	294
ATOM	2275	CA	GLY	A	294
MOTA	2276	С	GLY	A	294
ATOM	2277	0	GLY	A	294
ATOM	2278	N	TRP	A	295
ATOM	2279	CA	TRP	A	295
ATOM	2280	С	TRP	A	295
ATOM	2281	0	TRP	A	295
MOTA	2282	CB	TRP	A	295
MOTA	2283	CG	TRP	Α	295
MOTA	2284	CD1	TRP	Α	295
ATOM	2285	CD2	TRP	A	295
ATOM	2286	NE1	TRP	A	295
ATOM	2287	CE2	TRP	Α	295
ATOM	2288	CE3	TRP	Α	295
ATOM	2289	CZ2	TRP	Α	295
ATOM	2290	CZ3	TRP	Α	295
ATOM	2291	CH2	TRP	A	295
ATOM	2292	N	TYR	A	296

2293 CA TYR A 296

2294 C TYR A 296

26 631	17 926	22.354	1.00	30.63	
		23.259		30.83	
		24.707	1.00	31.36	
26.175	46.693	25.621	1.00	28.39	
	45.729	22.851	1.00	29.98	
27.698	44.516	23.780	1.00	30.44	
26.384	43.735	23.766	1.00	26.66	
	43.643		1.00	33.51	
	48.095		1.00	32.98	
	48.577		1.00	35.96	
		26.835		39.26	
		28.029		39.62	
	49.407	26.215	1.00	34.49	
30.624	48.582	26.059	1.00	33.27	
31.869	49.134	25.840	1.00	32.89	
30.809	47.239	25.840	1.00	26.67	
32.768	48.167	25.756	1.00	31.57	
		25.911			
		25.981			
		26.427			
	49.937	26.808		37.83	
23.108	50.292	27.609	1.00	37.10	
24.651	51.878	25.361		44.00	
25.597	53.070	25.256	1.00	51.59	
25.192	54.069	24.174	1.00	58.20	
25.544	55.252	24.248	1.00	58.41	
	53.595		1.00	57.53	
		26.251		35.06	
		26.564		31.20	
			1.00	31.87	
22.741	45.957	28.218	1.00	28.32	
22.823	46.726	25.412	1.00	33.88	
22.183	47.239	24.124 23.092	1.00	37.17	
22.203	46.139	23.092	1.00	35.04	
		24.390		39.47	
		28.484		33.62	
		29.737			
		29.749		33.47	
25.724	44.883	30.746	1.00	33.94	
26.417	45.306	28.662	1.00	32.35	
27.241	44.111	28.644	1.00	29.88	
28.687	44.446	28.375	1.00	30.10	
28.996	45.204	27.454	1.00	31.06	
26.763	43.104	27.604	1.00	26.98	
27.473	41.787	27.730	1.00	28.14	
27.090	40.722	28.491	1.00	25.99	
28.694	41.398	27.077	1.00	25.65	
27.992	39.693	28.351	1.00	29.60	
28.985	40.082	27.489	1.00	25.20	
29.565	42.036	26.181	1.00	26.80	
30.108	39.389	27.037	1.00	24.14	
30.678	41.349	25.732	1.00	22.64	
30.940	40.036	26.161	1.00	24.17	
29.560	43.862	29.190	1.00	29.32	
31.005	44.033	29.077	1.00	28.77	
31.659	42.651	29.158	1.00	29.73	

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ATOM	2295	5 0	TYR	Α	296	3:	1.201	41
ATOM	2296		TYR	Α	296		1.526	44
ATOM	2297		TYR	Α	296		1.191	46
ATOM	2298		TYR	Α	296		9.952	46
ATOM	2299		TYR		296		2.114	47
ATOM	2300		TYR	Α	296		9.641	48
ATOM	2301		TYR	Α	296		1.817	48
ATOM	2302		TYR	Α	296		0.582	49
ATOM	2303		TYR	Α	296		0.314	50
ATOM	2304		HIS	A	297		2.695	42
ATOM	2305		HIS	A	297		3.396	41
ATOM	2306		HIS	A	297		4.166	40
ATOM	2307		HIS	Α	297		4.608	41
ATOM	2308		HIS	Α	297		4.358	41
ATOM	2309		HIS	A	297		5.472	42
ATOM	2310		HIS	Α	297		5.274	43
ATOM	2311		HIS	Α	297		6.797	41
ATOM	2312		HIS	Α	297		6.430	44
ATOM	2313		HIS	Α	297		7.370	43
ATOM	2314		GLU	A	298		4.337	39
ATOM	2315		GLU	A	298		5.050	39
ATOM	2316		GLU	A	298		6.411	38
ATOM	2317		GLU	A	298		7.288	38
ATOM	2318		GLU	А	298		4.195	38
ATOM	2319		GLU	Α	298		2.984	39
ATOM	2320) CD	GLU	Α	298	3:	2.192	38
ATOM	2321	L OE1	GLU	Α	298	3:	2.626	37
ATOM	2322	0E2	GLU	Α	298	3	1.142	37
ATOM	2323	3 N	ILE	Α	299	3	6.590	38
ATOM	2324	1 CA	ILE	Α	299	3.	7.829	37
ATOM	2325		ILE	Α	299		8.899	38
ATOM	2326		ILE	Α	299		8.712	38
ATOM	2327		ILE	А	299		7.523	35
ATOM	2328		ILE	Α	299		6.569	35
ATOM	2329		ILE	Α	299		8.793	35
ATOM	2330		ILE	А	299		5.864	33
ATOM	2331		SER	А	300		0.025	38
ATOM	2332		SER	А	300		1.159	39
ATOM	2333		SER	А	300		1.938	38
ATOM	2334		SER	Α	300		1.867	36
ATOM	2335		SER	A	300		2.096	39
ATOM	2336		SER	A	300		2.755	38
ATOM	2337		LEU	A	301		2.733	38
ATOM	2338		LEU	A	301		3.495	37
ATOM	2339		LEU	A	301		4.406	36
ATOM	2340		LEU	A	301		4.315	35
ATOM ATOM	23412342		LEU	A A	301 301		4.297 4.982	38 38
ATOM	2342		LEU LEU	A	301		4.982 3.940	37
ATOM	2344		LEU	A	301		5.940 5.924	39
ATOM	2345		GLU	A	302		5.259	37
ATOM	2346		GLU	A	302		6.193	36
ATOM	2347		GLU	A	302		5.449	35
ATOM	2348		GLU	A	302		5.797	33
ATOM	2349		GLU	A	302		7.072	36
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2295	0	TYR	Δ	296	31.201	41.785	29.916	1 00	30.95	0
2296	CB	TYR			31.526	44.932	30.194		28.63	С
2297	CG	TYR	Α	296	31.191	46.388	30.010	1.00	35.13	С
2298	CD1	TYR	Α	296	29.952	46.906	30.416	1.00	35.72	С
2299	CD2	TYR	Δ	296	32.114	47.259	29.435	1.00	37.60	С
2300	CE1	TYR			29.641	48.260	30.250	1.00	37.06	С
2301	CE2	TYR	Α	296	31.817	48.616	29.268	1.00	42.99	С
2302	CZ	TYR	Α	296	30.582	49.112	29.676	1.00	43.71	С
2303	ОН	TYR			30.314	50.458	29.501		47.05	0
2304	Ν	HIS			32.695	42.433	28.348		29.71	N
2305	CA	HIS	Α	297	33.396	41.153	28.328	1.00	32.32	С
2306	С	HIS	Α	297	34.166	40.957	29.617	1.00	34.54	С
2307	0	HIS	Α	297	34.608	41.930	30.227	1.00	32.74	0
										C
2308	СВ	HIS			34.358	41.077	27.144		33.25	
2309	CG	HIS	А	297	35.472	42.070	27.209	1.00	33.45	С
2310	ND1	HIS	Α	297	35.274	43.422	27.025	1.00	34.24	N
2311	CD2	HIS	Α	2.97	36.797	41.911	27.438	1.00	31.57	С
2312		HIS			36.430	44.053	27.136		31.26	C
2313	NE2	HIS			37.370	43.159	27.386		28.92	N
2314	N	GLU	Α	298	34.337	39.697	30.009	1.00	35.11	N
2315	CA	GLU	Α	298	35.050	39.354	31.233	1.00	38.13	C
2316	С	GLU			36.411	38.696	31.039	1.00	36.62	С
2317	0	GLU			37.288	38.818	31.893		39.28	0
2318	СВ	GLU	А	298	34.195	38.435	32.099	1.00	42.57	С
2319	CG	GLU	Α	298	32.984	39.116	32.700	1.00	56.55	С
2320	CD	GLU	Α	298	32.192	38.188	33.596	1.00	63.39	С
2321	OE1	GLU			32.626	37.965	34.747		69.05	0
2322	OE2	GLU			31.142	37.676	33.150	1.00	67.36	0
2323	Ν	ILE	Α	299	36.590	38.005	29.920	1.00	33.15	N
2324	CA	ILE	Α	299	37.829	37.289	29.657	1.00	28.71	С
2325	С	ILE	Δ	299	38.899	38.075	28.912	1.00	30.47	C
2326	0	ILE			38.712	38.461	27.756		29.27	0
2327	СВ	ILE			37.523	35.973	28.927		26.40	С
2328	CG1	ILE	Α	299	36.569	35.127	29.785	1.00	24.94	С
2329	CG2	ILE	Α	299	38.793	35.225	28.631	1.00	24.43	С
2330	CD1	ILE	Δ	299	35.864	33.994	29.039	1 00	26.53	С
2331					40.025	38.304			30.54	
	N	SER					29.590			N
2332	CA	SER			41.159	39.025	28.999	1.00	30.46	С
2333	С	SER	Α	300	41.938	38.078	28.076	1.00	28.34	С
2334	0	SER	Α	300	41.867	36.852	28.218	1.00	28.24	0
2335	СВ	SER			42.096	39.546	30.087		27.63	C
2336	OG	SER			42.755	38.464	30.725		34.47	0
2337	Ν	LEU	А	301	42.733	38.653	27.180	1.00	28.69	N
2338	CA	LEU	Α	301	43.495	37.869	26.221	1.00	27.42	С
2339	С	LEU			44.406	36.790	26.818	1.00	29.59	С
2340	0	LEU			44.315	35.627	26.425		28.46	0
2341	СВ	LEU			44.297	38.791	25.303		26.04	С
2342	CG	LEU	Α	301	44.982	38.076	24.132	1.00	30.13	С
2343	CD1	LEU	Α	301	43.940	37.536	23.150	1.00	24.15	С
2344		LEU			45.924	39.020	23.431		30.75	С
2345	N	GLU			45.259	37.166	27.772		30.96	N
2346	CA	GLU			46.193	36.224	28.387	1.00	33.25	С
2347	С	GLU	Α	302	45.449	35.068	29.033	1.00	29.75	С
2348	0	GLU			45.797	33.903	28.813		28.90	0
2349	СВ	GLU			47.072	36.904	29.445		40.61	C
2350	CG	GLU	А	302	47.527	38.323	29.119	1.00	58.01	С

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ATOM	2351	CD	GLU	A	302				
ATOM	2352	OE1	GLU	Α	302				
ATOM	2353	OE2	GLU	Α	302				
ATOM	2354	N	ALA	Α	303				
ATOM	2355	CA	ALA	Α	303				
ATOM	2356	С	ALA	Α	303				
ATOM	2357	0	ALA	Α	303				
ATOM	2358	СВ	ALA	А	303				
ATOM	2359	N	GLY	А	304				
ATOM	2360	CA	GLY	Α	304				
ATOM	2361	С	GLY	Α	304				
ATOM	2362	0	GLY	Α	304				
ATOM	2363	N	LEU	Α	305				
ATOM	2364	CA	LEU	А	305				
ATOM	2365	С	LEU	Α	305				
ATOM	2366	0	LEU	Α	305				
ATOM	2367	СВ	LEU	Α	305				
ATOM	2368	CG	LEU	А	305				
ATOM	2369	CD1	LEU	А	305				
ATOM	2370	CD2	LEU	А	305				
ATOM	2371	N	ALA	Α	306				
ATOM	2372	CA	ALA	Α	306				
ATOM	2373	С	ALA	Α	306				
ATOM	2374	0	ALA	А	306				
ATOM	2375	СВ	ALA	Α	306				
ATOM	2376	N	SER	A	307				
ATOM	2377	CA	SER	Α	307				
ATOM	2378	С	SER	А	307				
ATOM	2379	0	SER	А	307				
ATOM	2380	СВ	SER	Α	307				
ATOM	2381	OG	SER	A	307				
ATOM	2382	N	THR	Α	308				
ATOM	2383	CA	THR	А	308				
ATOM	2384	С	THR	А	308				
ATOM	2385	0	THR	А	308				
ATOM	2386	СВ	THR	Α	308				
ATOM	2387	OG1	THR	А	308				
ATOM	2388	CG2	THR	А	308				
ATOM	2389	N	TYR	А	309				
ATOM	2390	CA	TYR	Α	309				
ATOM	2391	С	TYR	Α	309				
ATOM	2392	0	TYR	А	309				
ATOM	2393	СВ	TYR	А	309				
ATOM	2394	CG	TYR	A	309				
ATOM	2395	CD1	TYR	A	309				
ATOM	2396	CD2	TYR	A	309				
ATOM	2397	CE1	TYR	A	309				
ATOM	2398	CE2	TYR	A	309				
ATOM	2399	CZ	TYR	Α	309				
ATOM	2400	OH	TYR	Α	309				
ATOM	2401	N	GLN	A	310				

2402 CA GLN A 310

2405 CB GLN A 310

2406 CG GLN A 310

GLN A 310

GLN A 310

2403 C

2404 0

46.440		29.381		65.75	
		30.532		72.24	
46.102 44.425	40.140 35.403	28.439 29.824	1.00	63.01 24.88	
43.606	34.408	30.526	1.00	24.71	
42.865	33.484	29.560	1.00	25.54	
42.791	32.271	29.789	1.00	29.66	
42.616	35.098	31.458	1.00	21.89	
42.340		28.476	1.00	23.60	
41.615 42.518		27.488 26.698		22.00	
42.310			1.00	24.00	
43.735	32.806	26.415		22.18	
44.695	31.997	25.675	1.00	22.81	
45.192	30.854	26.550	1.00	23.51	
45.345	29.724 32.854	26.083	1.00	21.91	
	32.854		1.00	23.16 22.90	
	34.725			23.25	
	33.054			19.28	
45.407				22.44	
45.863	30.114	28.755	1.00	23.30	
44.805 45.127	29.003 27.813	28.904 28.799	1.00	25.38 27.64	
46.200	30.735	30.107	1.00	17.87	
43.538	29.376	29.097	1.00	25.23	
42.491	28.366	29.242	1.00	26.15	
42.228				25.13	
41.934 41.196		27.983 29.785		28.37 25.82	
40.598	29.852	28.850	1.00	34.44	
42.322	28.275	26.812	1.00	22.65	
42.126	27.643	25.505	1.00	22.04	
43.255	26.631 25.565	25.264 24.687	1.00	23.92	
43.024	28.693	24.887	1.00	25.72 21.15	
		24.552			
41.939		23.008			
44.481	26.987	25.665	1.00	25.33	
45.636	26.102	25.493	1.00	26.21	
45.420 45.711	24.846 23.730	26.330 25.898	1.00	26.41 23.91	
46.944	26.787	25.918	1.00	23.36	
48.166	25.943	25.605	1.00	21.24	
48.328	25.367	24.340	1.00	18.75	
49.131 49.411	25.681 24.551	26.582 24.052	1.00	21.27 19.56	
50.223	24.866	26.311	1.00	17.57	
50.361	24.302	25.045	1.00	21.33	
51.456	23.502	24.767	1.00	20.21	
44.897	25.056	27.531	1.00	27.89	
44.594 43.607	23.978 23.018	28.451 27.789	1.00	31.81 31.36	
43.820	21.810	27.808	1.00	33.37	
44.006	24.560	29.734	1.00	38.01	
44.110	23.639	30.916	1.00	51.59	

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2407 CD GLN A 310 45.498 23.054 31.042 1.00 60.30 45.655 21.839 31.196 1.00 64.67 46.521 23.908 30.930 1.00 60.71 42.554 23.556 27.166 1.00 30.58

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ATOM	2463	0	GLN	Α	316	45.172	16.080	18.942	1.00 64.94
ATOM	2464	СВ	GLN	Α	316	46.376	17.549	21.379	1.00 58.71
ATOM	2465	CG	GLN	А	316	47.016	16.649	22.393	1.00 59.40
ATOM	2466	CD	GLN			48.429	17.084	22.718	1.00 59.51
ATOM	2467	OE1	GLN			48.777	17.256	23.884	1.00 60.21
ATOM	2468	NE2	GLN			49.251	17.271	21.686	1.00 56.65
	2469	N	ASP					20.658	
ATOM						44.312	14.897		
ATOM	2470	CA	ASP			44.142	13.698	19.846	1.00 77.85
ATOM	2471	С	ASP			42.781	13.744	19.166	1.00 78.64
ATOM	2472	0			317	41.908	12.910	19.406	1.00 80.62
MOTA	2473	СВ	ASP			44.328	12.424	20.674	1.00 83.34
MOTA	2474	CG	ASP			45.800	12.039	20.824	1.00 89.99
MOTA	2475	OD1	ASP			46.517	12.001	19.796	1.00 92.40
MOTA	2476	OD2	ASP			46.246	11.784	21.964	1.00 92.85
MOTA	2477	N	ARG	Α	318	42.621	14.780	18.348	1.00 77.41
MOTA	2478	CA	ARG	Α	318	41.419	15.058	17.573	1.00 74.69
MOTA	2479	С	ARG	Α	318	41.878	15.849	16.357	1.00 73.27
MOTA	2480	0	ARG	Α	318	41.164	15.940	15.357	1.00 73.07
ATOM	2481	CB	ARG	Α	318	40.436	15.905	18.392	1.00 72.86
MOTA	2482	CG	ARG	Α	318	39.720	15.139	19.496	1.00 73.72
ATOM	2483	CD	ARG	Α	318	38.963	16.058	20.429	1.00 75.04
ATOM	2484	NE	ARG			38.091	16.982	19.710	1.00 77.68
ATOM	2485	CZ	ARG			36.926	17.428	20.171	1.00 79.28
ATOM	2486	NH1	ARG			36.479	17.027	21.355	1.00 77.37
ATOM	2487		ARG			36.226	18.314	19.468	1.00 81.27
ATOM	2488	N	PHE			43.099	16.379	16.444	1.00 71.81
ATOM	2489	CA	PHE			43.693	17.187	15.380	1.00 71.58
ATOM	2490	C	PHE			44.983	16.571	14.830	1.00 71.04
ATOM	2491	0			319	45.714	15.872	15.538	1.00 70.70
ATOM	2492	СВ	PHE			43.965	18.605	15.904	1.00 67.34
ATOM	2493	CG	PHE			42.827	19.184	16.709	1.00 61.35
ATOM	2494	CD1	PHE			41.690	19.687	16.079	1.00 60.62
ATOM	2495				319	42.884	19.202	18.099	1.00 60.16
ATOM	2496	CE1	PHE			40.626	20.196	16.820	1.00 57.05
ATOM	2497	CE2			319	41.827	19.709	18.850	1.00 58.76
ATOM	2498	CZ	PHE			40.695	20.206	18.208	1.00 58.40
TER	2499	D.7	PHE	А		01 01 5	05 650	12 200	1 00 24 76
	2500	PA	NAP		350	31.315	25.650	13.389	1.00 34.76
	2501	01A			350	31.563	25.016	12.043	1.00 31.65
HETATM		02A			350	32.085	25.166	14.562	1.00 37.84
HETATM		05B			350	29.684	25.558	13.650	1.00 39.24
HETATM		C5B			350	28.750	25.313	12.566	1.00 36.88
HETATM			NAP		350	27.842	24.205	13.036	1.00 35.36
HETATM		04B			350	26.718	24.160	12.128	1.00 36.40
HETATM		СЗВ			350	28.498	22.848	12.994	1.00 35.93
HETATM		03B			350	28.280	22.123	14.231	1.00 34.09
HETATM		C2B	NAP		350	27.823	22.165	11.864	1.00 39.63
HETATM		02B			350	27.698	20.766	12.111	1.00 47.76
HETATM		C1B			350	26.459	22.787	11.809	1.00 35.60
HETATM		N9A	NAP		350	25.866	22.654	10.439	1.00 33.14
HETATM	2513	C8A	NAP		350	26.342	23.165	9.236	1.00 30.10
HETATM	2514	N7A	NAP		350	25.580	22.847	8.223	1.00 32.59
HETATM	2515	C5A	NAP		350	24.548	22.085	8.771	1.00 31.41
HETATM	2516	C6A	NAP		350	23.419	21.453	8.194	1.00 30.25
HETATM	2517	N6A	NAP		350	23.180	21.507	6.891	1.00 29.06
HETATM	2518	N1A	NAP		350	22.576	20.769	9.014	1.00 28.70

HETATM	2519	C2A	NAP	350	22.831	20.718	10.330	1.00	28.43
HETATM		N3A				21.280	10.954		30.51
HETATM		C4A		350	24.696	21.965	10.107		31.90
HETATM					31.431	27.248	13.257		37.22
HETATM		PN			31.468	28.504	14.272		35.69
HETATM		01N			32.940	28.921	14.381		40.67
HETATM		02N				28.014	15.557		35.97
HETATM		05D					13.569		41.76
HETATM		C5D					13.621		38.01
HETATM		C4D					13.326		41.09
HETATM		04D			29.468	32.058	14.355		41.66
HETATM		C3D			29.433	31.777	12.022		42.10
HETATM		03D			28.658	31.471	10.835		38.55
HETATM			NAP		29.570	33.266	12.272		42.29
HETATM		02D			28.363	33.916	11.954		45.57
HETATM			NAP		29.908		13.798		41.41
HETATM			NAP				13.730		41.86
HETATM			NAP				13.573		43.61
HETATM		C3N					13.653		44.66
HETATM					33.656	36.335	13.282		48.04
HETATM			NAP		32.753	37.260	12.896		50.66
HETATM		N7N			34.863	36.682	13.302		52.50
HETATM		C4N			34.070	33.999	14.067		42.95
HETATM		C5N			33.626	32.752	14.411		44.60
HETATM		C6N				32.732	14.334		44.58
HETATM		P2B							52.24
HETATM							11.451		
			NAP			20.272	11.538		50.46
HETATM		02X				18.481	12.338		53.78
HETATM					28.235	19.553	10.022		50.69
HETATM		0	НОН				6.381		16.89
HETATM		0	НОН		61.533	39.995	15.192		21.68
HETATM		0	НОН		36.872	37.741	25.626		22.16
HETATM		0	НОН				4.261		22.68
HETATM		0		7		46.154			18.04
HETATM		0		8		47.882			23.36
HETATM		0		9		46.051			22.48
HETATM		0	НОН			26.941			29.01
HETATM		0	НОН		39.982	37.473			26.28
HETATM				12		45.140			
HETATM		0	НОН	13	8.855	48.580	12.080		38.11
HETATM		0	НОН	14		44.474	15.232		26.77
HETATM		0	НОН	15			25.692		35.56
HETATM		0	НОН	16			21.746		30.77
HETATM		0	НОН	17			25.689		25.27
HETATM		0	НОН	18			14.187		25.08
HETATM		0	НОН	19		45.145	12.683		24.39
HETATM		0	НОН	20			2.552		23.58
HETATM		0	НОН	21	28.009	47.180	20.039		31.78
HETATM		0	НОН	22	55.235	38.968	30.303		31.54
HETATM		0	НОН	23		42.828	17.183		18.81
HETATM		0	НОН	24	18.161	41.680	13.459		22.68
HETATM		0	НОН	25	60.844	36.217	20.812		22.17
HETATM		0	НОН	26	61.525	26.415	23.436		28.05
HETATM		0	НОН	27		49.495	16.055		29.82
HETATM		0	НОН		4.997	38.912	16.336		62.85
HETATM	25/4	0	НОН	29	25.400	31.296	12.074	1.00	41.46

HETATM	2575	0	НОН	30	24.605	36.292	29.442	1.00 31.75	0
HETATM	2576	0	НОН	31	52.258	40.744	10.813	1.00 28.10	0
HETATM	2577	0	HOH	32	28.510	50.472	18.599	1.00 25.40	0
HETATM	2578	0	HOH	33	24.456	31.179	8.274	1.00 39.37	0
HETATM	2579	0	HOH	34	53.348	32.774	9.272	1.00 34.82	0
HETATM	2580	0	HOH	35	9.013	27.922	0.782	1.00 59.23	0
HETATM		0	HOH	36	49.684	45.671	20.703	1.00 54.40	0
HETATM		0	HOH	37	28.274	26.933	16.157	1.00 26.41	0
HETATM		0	HOH	38	48.615	49.190	12.585	1.00 57.60	0
HETATM		0	HOH	39	27.305	50.883	30.129	1.00 80.77	0
HETATM		0	HOH	40	14.791	37.777	20.135	1.00 24.63	0
HETATM		0	НОН	41	58.836	26.482	29.243	1.00 30.33	0
HETATM		0	НОН	42	29.869	28.999	27.315	1.00 31.54	0
HETATM		0	НОН	43	59.314	29.151	11.354	1.00 48.32	0
HETATM		0	НОН	44	40.913	29.037	19.585	1.00 19.90	0
HETATM		0	НОН	46	27.296	20.878	22.102	1.00 27.78	0
HETATM		0	НОН	47	34.925	42.289	4.172	1.00 31.35	0
HETATM		0	НОН	48	39.562	54.767	10.562	1.00 55.88	0
HETATM		0	НОН	49	6.679	46.246	12.513	1.00 39.35	0
HETATM		0	НОН	50	47.645	26.949	29.660 15.755	1.00 37.74	0
HETATM HETATM		0	НОН	51 52	53.077	48.894 36.229	24.515	1.00 72.97 1.00 29.76	0
HETATM		0	НОН НОН	53	57.009 63.450	27.712	33.414	1.00 29.78	0
HETATM		0	нон НОН	54	60.411	39.030	18.977	1.00 35.30	0
HETATM		0	НОН	55	14.626	48.458	15.987	1.00 30.40	0
HETATM		0	НОН	56	32.983	53.371	11.919	1.00 32.90	0
HETATM		0	НОН	57	13.156	46.110	15.070	1.00 40.18	0
HETATM		0	НОН	58	1.780	40.262	5.360	1.00 68.99	0
HETATM		0	НОН	59	53.241	19.437	26.942	1.00 55.71	0
HETATM		0	НОН	60	49.782	28.984	30.240	1.00 31.55	0
HETATM		0	НОН	61	33.206	33.012	0.803	1.00 32.86	0
HETATM		0	НОН	62	20.073	49.510	6.142	1.00 50.79	0
HETATM		0	НОН	64	30.893	22.188	24.753	1.00 69.01	0
HETATM	2608	0	HOH	66	9.313	39.417	21.861	1.00 38.81	0
HETATM	2609	0	HOH	67	13.155	16.008	15.399	1.00 64.57	0
HETATM	2610	0	HOH	68	41.811	33.507	15.483	1.00 30.96	0
HETATM	2611	0	HOH	69	55.349	43.715	6.074	1.00 27.98	0
HETATM	2612	0	HOH	70	39.825	31.318	15.523	1.00 37.16	0
HETATM		0	HOH	71	44.794	38.590	11.312	1.00 76.74	0
HETATM		0	HOH	72	63.211	26.438	21.348	1.00 40.93	0
HETATM		0	HOH	73	42.497	49.542	8.832	1.00 61.72	0
HETATM		0	HOH	74	20.997	22.346	14.536	1.00 27.47	0
HETATM		0	НОН	75	63.537	36.837	22.163	1.00 35.85	0
HETATM		0	НОН	76	50.500	20.192	31.793	1.00 57.25	0
HETATM		0	НОН	77	54.819	22.298	24.157	1.00 32.35	0
HETATM		0	НОН	78	25.951	21.139	15.523	1.00 40.44	0
HETATM		0	НОН	79	8.286	32.441	20.329	1.00 44.66	0
HETATM		0	НОН	80	10.336	42.096	25.866	1.00 73.09	0
HETATM HETATM		0	НОН НОН	81 82	33.522 37.121	31.263 42.237	6.723 13.398	1.00 44.11 1.00 49.83	0
HETATM		0	нон НОН	82 83	32.615	33.472	10.935	1.00 49.83	0
HETATM		0	нон НОН	84	30.882	25.099	9.566	1.00 31.04	0
HETATM		0	НОН	85	23.744	20.856	13.717	1.00 47.19	0
HETATM		0	НОН	86	20.375	19.785	12.785	1.00 40.92	0
HETATM		0	НОН	87	20.549	21.496	17.091	1.00 32.28	0
HETATM		0	НОН	88	25.698	17.952	13.720	1.00 57.70	0
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CONECT 2500 2501 2502 2503 2522
CONECT 2501 2500
CONECT 2502 2500
CONECT 2503 2500 2504
CONECT 2504 2503 2505
CONECT 2505 2504 2506 2507
CONECT 2506 2505 2511
CONECT 2507 2505 2508 2509
CONECT 2508 2507
CONECT 2509 2507 2510 2511
CONECT 2510 2509 2544
CONECT 2511 2506 2509 2512
CONECT 2512 2511 2513 2521
CONECT 2513 2512 2514
CONECT 2514 2513 2515
CONECT 2515 2514 2516 2521
CONECT 2516 2515 2517 2518
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CONECT 2519 2518 2520
CONECT 2520 2519 2521
CONECT 2521 2512 2515 2520
CONECT 2522 2500 2523
CONECT 2523 2522 2524 2525 2526
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CONECT 2527 2526 2528
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CONECT 2542 2541 2543
CONECT 2543 2535 2542
CONECT 2544 2510 2545 2546 2547
CONECT 2545 2544
CONECT 2546 2544
CONECT 2547 2544
MASTER 273 0 1 13 10 0 0 6 2629 1 48 25
END
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```
31-AUG-98 1BSV
HEADER OXIDOREDUCTASE
TITLE
        GDP-FUCOSE SYNTHETASE FROM ESCHERICHIA COLI COMPLEX WITH
TITLE
       2 NADPH
COMPND MOL ID: 1;
COMPND 2 MOLECULE: PROTEIN (GDP-FUCOSE SYNTHETASE);
COMPND 3 CHAIN: A;
COMPND 4 SYNONYM: WCAG, GDP-4-KETO 6-DEOXY-MANNOSE 3,5-EPIMERASE 4-
COMPND 5 REDUCTASE;
COMPND 6 ENGINEERED: YES
SOURCE MOL_ID: 1;
SOURCE 2 ORGANISM_SCIENTIFIC: ESCHERICHIA COLI;
SOURCE 3 ORGANISM_COMMON: BACTERIA;
SOURCE 4 STRAIN: K12;
SOURCE 5 CELLULAR_LOCATION: CYTOPLASM;
SOURCE 6 GENE: WCAG;
SOURCE 7 EXPRESSION_SYSTEM: ESCHERICHIA COLI;
SOURCE 8 EXPRESSION_SYSTEM_COMMON: BACTERIA;
SOURCE 9 EXPRESSION SYSTEM STRAIN: BL-21;
SOURCE 10 EXPRESSION_SYSTEM_CELLULAR_LOCATION: CYTOPLASM;
SOURCE 11 EXPRESSION_SYSTEM_PLASMID: PSEWCAG;
SOURCE 12 EXPRESSION_SYSTEM_GENE: WCAG
KEYWDS EPIMERASE-REDUCTASE, NADPH, GDP-FUCOSE
EXPDTA X-RAY DIFFRACTION
AUTHOR W.S.SOMERS, M.L.STAHL, F.X.SULLIVAN
REVDAT 2 27-DEC-00 1BSV 1 COMPND SOURCE REMARK
REVDAT 1 26-AUG-99 1BSV 0
JRNL AUTH W.S.SOMERS, M.L.STAHL, F.X.SULLIVAN
          TITL
                GDP-FUCOSE SYNTHETASE FROM ESCHERICHIA COLI:
JRNL
JRNL
          TITL 2 STRUCTURE OF A UNIQUE MEMBER OF THE SHORT-CHAIN
          TITL 3 DEHYDROGENASE/REDUCTASE FAMILY THAT CATALYZES TWO
JRNL
         TITL 4 DISTINCT REACTIONS AT THE SAME ACTIVE SITE.
JRNL REF STRUCTURE V
JRNL REFN ASTM STRUE6 UK ISSN 0969-2126
                                             V. 6 1601 1998
REMARK 1
REMARK 2
REMARK 2 RESOLUTION. 2.20 ANGSTROMS.
REMARK 3
REMARK 3 REFINEMENT.
REMARK 3 PROGRAM : X-PLOR 3.843
REMARK 3 AUTHORS : BRUNGER
REMARK
REMARK 3 DATA USED IN REFINEMENT.
REMARK 3 RESOLUTION RANGE HIGH (ANGSTROMS): 2.20
REMARK 3 RESOLUTION RANGE LOW (ANGSTROMS): 14.00
REMARK 3 DATA CUTOFF (SIGMA(F)): 2.000
REMARK 3 DATA CUTOFF HIGH (ABS(F)): NULL REMARK 3 DATA CUTOFF LOW (ABS(F)): NULL
REMARK 3 COMPLETENESS (WORKING+TEST) (%): 98.4
                                           : 23752
REMARK 3 NUMBER OF REFLECTIONS
REMARK 3
REMARK 3 FIT TO DATA USED IN REFINEMENT.
REMARK 3 CROSS-VALIDATION METHOD
REMARK 3 FREE R VALUE TEST SET SELECTION : NULL
REMARK 3 R VALUE
                             (WORKING SET) : 0.170
```

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```
REMARK 3 FREE R VALUE
                                                 : NULL
REMARK 3 FREE R VALUE TEST SET SIZE (%): NULL
REMARK 3 FREE R VALUE TEST SET COUNT : NULL
REMARK 3 ESTIMATED ERROR OF FREE R VALUE : NULL
REMARK 3
REMARK 3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK 3 TOTAL NUMBER OF BINS USED
                                                    : NULL
REMARK 3 BIN RESOLUTION RANGE HIGH
                                                (A) : NULL
REMARK 3 BIN RESOLUTION RANGE LOW (A): NULL
REMARK 3 BIN COMPLETENESS (WORKING+TEST) (%): NULL
REMARK 3 REFLECTIONS IN BIN (WORKING SET) : NULL
REMARK 3 BIN R VALUE (WORKING SET): NULL
REMARK 3 BIN FREE R VALUE : NULL
REMARK 3 BIN FREE R VALUE TEST SET SIZE (%): NULL
REMARK 3 BIN FREE R VALUE TEST SET COUNT : NULL
REMARK 3 ESTIMATED ERROR OF BIN FREE R VALUE: NULL
REMARK 3
REMARK 3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK 3 PROTEIN ATOMS : 2498
REMARK 3 NUCLEIC ACID ATOMS
                                        : 0
REMARK 3 NUCLEIC ACID ATOMS
REMARK 3 HETEROGEN ATOMS
REMARK 3 SOLVENT ATOMS
REMARK 3 SOLVENT ATOMS
REMARK 3
REMARK 3 B VALUES.
REMARK 3 FROM WILSON PLOT (A**2): NULL REMARK 3 MEAN B VALUE (OVERALL, A**2): NULL
REMARK 3 OVERALL ANISOTROPIC B VALUE.
REMARK 3 B11 (A^{**}2): NULL
REMARK 3 B22 (A^{**}2): NULL
REMARK 3 B33 (A**2): NULL
REMARK 3 B12 (A**2) : NULL
REMARK 3 B13 (A**2) : NULL
REMARK 3 B23 (A**2) : NULL
REMARK 3
REMARK 3 ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM LUZZATI PLOT (A): NULL REMARK 3 ESD FROM SIGMAA (A): NULL
REMARK 3 LOW RESOLUTION CUTOFF (A): NULL
REMARK 3
REMARK 3 CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK 3 ESD FROM C-V LUZZATI PLOT (A): NULL
REMARK 3 ESD FROM C-V SIGMAA
                                             (A) : NULL
REMARK 3
REMARK 3 RMS DEVIATIONS FROM IDEAL VALUES.
REMARK 3 BOND LENGTHS (A): 0.009
REMARK 3 BOND ANGLES (DEGREES): 1.38
REMARK 3 DIHEDRAL ANGLES (DEGREES): NULL
REMARK 3 IMPROPER ANGLES (DEGREES): NULL
REMARK 3
REMARK 3 ISOTROPIC THERMAL MODEL: NULL
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. RMS SIGMA
REMARK 3 MAIN-CHAIN BOND (A**2): NULL; NULL REMARK 3 MAIN-CHAIN BOND (A**2): NULL; NULL REMARK 3 SIDE-CHAIN BOND (A**2): NULL; NULL REMARK 3 SIDE-CHAIN ANGLE (A**2): NULL; NULL
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REMARK 3
REMARK 3 NCS MODEL: NULL
REMARK 3 NCS RESTRAINTS.

REMARK 3 GROUP 1 POSITIONAL (A): NULL; NULL

REMARK 3 GROUP 1 B-FACTOR (A**2): NULL; NULL
                                                RMS SIGMA/WEIGHT
REMARK 3
REMARK 3 PARAMETER FILE 1 : PARHCSDX.PRO
REMARK 3 PARAMETER FILE 2 : NULL
REMARK 3 TOPOLOGY FILE 1 : TOPHCSDX.PRO
REMARK 3 TOPOLOGY FILE 2 : NULL
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS: NULL
REMARK
REMARK 4 1BSV COMPLIES WITH FORMAT V. 3.0, 1-DEC-2006
REMARK 4
REMARK 4 THIS IS THE REMEDIATED VERSION OF THIS PDB ENTRY.
REMARK 4 REMEDIATED DATA FILE REVISION 3.100 (2007-03-16)
REMARK 100
REMARK 100 THIS ENTRY HAS BEEN PROCESSED BY RCSB .
REMARK 100 THE RCSB ID CODE IS RCSB007104.
REMARK 200
REMARK 200 EXPERIMENTAL DETAILS
REMARK 200 EXPERIMENT TYPE
                                       : X-RAY DIFFRACTION
REMARK 200 DATE OF DATA COLLECTION : 15-JUL-1997
REMARK 200 TEMPERATURE (KELVIN) : 291.0
                                        : 7.00
REMARK 200 PH
REMARK 200 NUMBER OF CRYSTALS USED
REMARK 200
                               (Y/N) : N
: ROTATING ANODE
REMARK 200 SYNCHROTRON
REMARK 200 RADIATION SOURCE
REMARK 200 BEAMLINE
                                        : NULL
REMARK 200 X-RAY GENERATOR MODEL
                                        : RIGAKU RU200
REMARK 200 MONOCHROMATIC OR LAUE (M/L): M
REMARK 200 WAVELENGTH OR RANGE (A): 1.5418
REMARK 200 MONOCHROMATOR
                                        : NI FILTER
REMARK 200 OPTICS
                                        : MIRRORS
REMARK 200
REMARK 200 DETECTOR TYPE
                                       : IMAGE PLATE
REMARK 200 DETECTOR MANUFACTURER : RIGAKU RAXIS II
REMARK 200 INTENSITY-INTEGRATION SOFTWARE : DENZO
REMARK 200 DATA SCALING SOFTWARE : SCALEPACK
REMARK 200
REMARK 200 NUMBER OF UNIQUE REFLECTIONS : 24049
REMARK 200 RESOLUTION RANGE HIGH (A): 2.200
REMARK 200 RESOLUTION RANGE LOW
                                   (A) : 14.000
REMARK 200 REJECTION CRITERIA (SIGMA(I)): 0.000
REMARK 200
REMARK 200 OVERALL.
REMARK 200 COMPLETENESS FOR RANGE (%): 99.6
REMARK 200 DATA REDUNDANCY
                                    : 6.900
REMARK 200 R MERGE
REMARK 200 R SYM
                                    (I) : 0.05600
                                    (I) : NULL
REMARK 200 <I/SIGMA(I) > FOR THE DATA SET : 26.4000
REMARK 200
REMARK 200 IN THE HIGHEST RESOLUTION SHELL.
```

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REMARK 200 HIGHEST RESOLUTION SHELL, RANGE HIGH (A): 2.20
 REMARK 200 HIGHEST RESOLUTION SHELL, RANGE LOW (A): 2.28
 REMARK 200 COMPLETENESS FOR SHELL (%): 96.7
                                                                       : NULL
 REMARK 200 DATA REDUNDANCY IN SHELL
REMARK 200 R MERGE FOR SHELL (I): NULL REMARK 200 R SYM FOR SHELL (I): NULL REMARK 200 <I/SIGMA(I)> FOR SHELL : 4.400
REMARK 200
REMARK 200 DIFFRACTION PROTOCOL: SINGLE WAVELENGTH
REMARK 200 METHOD USED TO DETERMINE THE STRUCTURE: MOLECULAR REPLACEMENT
REMARK 200 SOFTWARE USED: NULL
REMARK 200 STARTING MODEL: 1GFS
 REMARK 200
 REMARK 200 REMARK: NULL
REMARK 280
REMARK 280 CRYSTAL
 REMARK 280 SOLVENT CONTENT, VS (%): 62.14
REMARK 280 MATTHEWS COEFFICIENT, VM (ANGSTROMS**3/DA): 3.25
REMARK 280
REMARK 280 CRYSTALLIZATION CONDITIONS: 4.0 M SODIUM FORMATE, PH 7
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY
REMARK 290 SYMMETRY OPERATORS FOR SPACE GROUP: P 32 2 1
 REMARK 290
REMARK 290 SYMOP SYMMETRY
REMARK 290 NNNMMM OPERATOR
REMARK 290 1555 X,Y,Z
REMARK 290 2555 -Y,X-Y,2/3+Z
                         3555 -x+y,-x,1/3+Z
4555 y,x,-z
5555 x-y,-y,1/3-Z
6555 -x,-x+y,2/3-Z
REMARK 290
REMARK 290
REMARK 290
REMARK 290
REMARK 290
REMARK 290 WHERE NNN -> OPERATOR NUMBER
                         MMM -> TRANSLATION VECTOR
REMARK 290
REMARK 290
REMARK 290 CRYSTALLOGRAPHIC SYMMETRY TRANSFORMATIONS
REMARK 290 THE FOLLOWING TRANSFORMATIONS OPERATE ON THE ATOM/HETATM
REMARK 290 RECORDS IN THIS ENTRY TO PRODUCE CRYSTALLOGRAPHICALLY
REMARK 290 RELATED MOLECULES.
REMARK 290 SMTRY1 1 1.000000 0.000000 0.000000 REMARK 290 SMTRY2 1 0.000000 1.000000 0.000000
                                                                                                            0.00000
 REMARK 290 SMTRY3 1 0.000000 0.000000 1.000000
                                                                                                            0.00000
 REMARK 290 SMTRY1 2 -0.500000 -0.866025 0.000000
REMARK 290 SMTRY2 2 0.866025 -0.500000 0.000000
                                                                                                             0.00000

        REMARK 290
        SMTRY3
        2 0.000000
        0.000000
        1.000000
        49.93333

        REMARK 290
        SMTRY1
        3 -0.500000
        0.866025
        0.000000
        0.00000

        REMARK 290
        SMTRY2
        3 -0.866025 -0.500000
        0.000000
        0.00000

        REMARK 290
        SMTRY3
        3 0.000000
        0.000000
        1.000000
        24.96667

        REMARK 290
        SMTRY1
        4 -0.500000
        0.866025
        0.000000
        0.00000

        REMARK 290
        SMTRY2
        4 0.866025
        0.500000
        0.000000
        0.00000

        REMARK 290
        SMTRY3
        4 0.000000
        0.000000
        -1.000000
        0.00000

        REMARK 290
        SMTRY1
        5 1.000000
        0.000000
        0.000000
        0.00000

        REMARK 290
        SMTRY2
        5 0.000000
        -1.000000
        0.000000
        0.00000

        REMARK 290
        SMTRY3
        5 0.000000
        -0.866025
        0.000000
        0.00000

        REMARK 290
        SMTRY1
        6 -0.500000
        -0.866025
        0.000000
        0.00000

REMARK 290 SMTRY3 2 0.000000 0.000000 1.000000
                                                                                                           49.93333
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REMARK 290 SMTRY2 6 -0.866025 0.500000 0.000000
                                                         0.00000
REMARK 290 SMTRY3 6 0.000000 0.000000 -1.000000
                                                        49.93333
REMARK 290
REMARK 290 REMARK: NULL
REMARK 300
REMARK 300 BIOMOLECULE: 1
REMARK 300 THIS ENTRY CONTAINS THE CRYSTALLOGRAPHIC ASYMMETRIC UNIT
REMARK 300 WHICH CONSISTS OF 1 CHAIN(S). SEE REMARK 350 FOR
REMARK 300 INFORMATION ON GENERATING THE BIOLOGICAL MOLECULE(S).
REMARK 350
REMARK 350 GENERATING THE BIOMOLECULE
REMARK 350 COORDINATES FOR A COMPLETE MULTIMER REPRESENTING THE KNOWN
REMARK 350 BIOLOGICALLY SIGNIFICANT OLIGOMERIZATION STATE OF THE
REMARK 350 MOLECULE CAN BE GENERATED BY APPLYING BIOMT TRANSFORMATIONS
REMARK 350 GIVEN BELOW. BOTH NON-CRYSTALLOGRAPHIC AND
REMARK 350 CRYSTALLOGRAPHIC OPERATIONS ARE GIVEN.
REMARK 350
REMARK 350 BIOMOLECULE: 1
REMARK 350 APPLY THE FOLLOWING TO CHAINS: A
REMARK 350 BIOMT1 1 1.000000 0.000000 0.000000
REMARK 350 BIOMT2 1 0.000000 1.000000 0.000000
                                                          0.00000
REMARK 350 BIOMT3 1 0.000000 0.000000 1.000000
                                                         0.00000
REMARK 350 BIOMT1 2 -0.500000 0.866025 0.000000
                                                        0.00000
REMARK 350 BIOMT2 2 0.866025 0.500000 0.000000
                                                        0.00000
REMARK 350 BIOMT3 2 0.000000 0.000000 -1.000000
                                                       0.00000
REMARK 465
REMARK 465 MISSING RESIDUES
REMARK 465 THE FOLLOWING RESIDUES WERE NOT LOCATED IN THE
REMARK 465 EXPERIMENT. (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 465 IDENTIFIER; SSSEQ-SEQUENCE NUMBER; I=INSERTION CODE.)
REMARK 465
REMARK 465 M RES C SSSEQI
REMARK 465 MET A 1
REMARK 465 SER A 2
REMARK 465 ARG A 320
REMARK 465 GLY A 321
REMARK 470
REMARK 470 MISSING ATOM
REMARK 470 THE FOLLOWING RESIDUES HAVE MISSING ATOMS (M=MODEL NUMBER;
REMARK 470 RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE NUMBER;
REMARK 470 I=INSERTION CODE):
REMARK 470 M RES CSSEQI ATOMS
REMARK 470 ARG A 45 CG CD
                                     NE CZ NH1 NH2
REMARK 470
            ARG A 55
                         CG CD NE CZ NH1 NH2
            HIS A 174 CG ND1 CD2 CE1 NE2
REMARK 470
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND LENGTHS
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X,I3,1X,2(A3,1X,A1,I4,A1,1X,A4,3X),F6.3)
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REMARK 500
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1 RES CSSEQI ATM2 DEVIATION
REMARK 500
          ILE A 110 CB
                             ILE A 110 CG2 -0.051
REMARK 500
REMARK 500 GEOMETRY AND STEREOCHEMISTRY
REMARK 500 SUBTOPIC: COVALENT BOND ANGLES
REMARK 500
REMARK 500 THE STEREOCHEMICAL PARAMETERS OF THE FOLLOWING RESIDUES
REMARK 500 HAVE VALUES WHICH DEVIATE FROM EXPECTED VALUES BY MORE
REMARK 500 THAN 6*RMSD (M=MODEL NUMBER; RES=RESIDUE NAME; C=CHAIN
REMARK 500 IDENTIFIER; SSEQ=SEQUENCE NUMBER; I=INSERTION CODE).
REMARK 500
REMARK 500 STANDARD TABLE:
REMARK 500 FORMAT: (10X, I3, 1X, A3, 1X, A1, I4, A1, 3(1X, A4, 2X), 12X, F5.1)
REMARK 500 EXPECTED VALUES: ENGH AND HUBER, 1991
REMARK 500
REMARK 500 M RES CSSEQI ATM1 ATM2 ATM3
REMARK 500 TYR A 60 N - CA - C ANGL. DEV. = -8.3 DEGREES
                       N - CA - C ANGL. DEV. =-11.5 DEGREES
REMARK 500 LYS A 65
REMARK 500 ASP A 98 N - CA - C ANGL. DEV. = 10.7 DEGREES
REMARK 500 VAL A 99 N - CA - C ANGL. DEV. = -9.4 DEGREES
REMARK 500 GLU A 134 N - CA - C ANGL. DEV. = 8.5 DEGREES
REMARK 500 GLU A 226 N - CA - C ANGL. DEV. = 8.6 DEGREES
                       N - CA - C ANGL. DEV. = -9.2 DEGREES
N - CA - C ANGL. DEV. = 9.4 DEGREES
          LEU A 240
REMARK 500
REMARK 500
          SER A 241
REMARK 500 ASP A 286 N - CA - C ANGL. DEV. =-11.7 DEGREES
REMARK 525
REMARK 525 SOLVENT
REMARK 525 THE FOLLOWING SOLVENT MOLECULES LIE FARTHER THAN EXPECTED
REMARK 525 FROM THE PROTEIN OR NUCLEIC ACID MOLECULE AND MAY BE
REMARK 525 ASSOCIATED WITH A SYMMETRY RELATED MOLECULE (M=MODEL
REMARK 525 NUMBER; RES=RESIDUE NAME; C=CHAIN IDENTIFIER; SSEQ=SEQUENCE
REMARK 525 NUMBER; I=INSERTION CODE):
REMARK 525
REMARK 525 M RES CSSEOI
                            DISTANCE = 5.47 ANGSTROMS
REMARK 525 HOH 420
                             DISTANCE = 6.09 ANGSTROMS
REMARK 525 HOH 427 DISTANCE = 0.09 ANGSIROMS
REMARK 525 HOH 459 DISTANCE = 5.18 ANGSTROMS
REMARK 525
             HOH 427
DBREF 1BSV A 1 321 UNP P32055 FCL_ECOLI
                                                             321
SEQRES 1 A 321 MET SER LYS GLN ARG VAL PHE ILE ALA GLY HIS ARG GLY
SEQRES 2 A 321 MET VAL GLY SER ALA ILE ARG ARG GLN LEU GLU GLN ARG
SEQRES 3 A 321 GLY ASP VAL GLU LEU VAL LEU ARG THR ARG ASP GLU LEU
SEQRES 4 A 321 ASN LEU LEU ASP SER ARG ALA VAL HIS ASP PHE PHE ALA
SEQRES 5 A 321 SER GLU ARG ILE ASP GLN VAL TYR LEU ALA ALA ALA LYS
SEQRES 6 A 321 VAL GLY GLY ILE VAL ALA ASN ASN THR TYR PRO ALA ASP
SEQRES 7 A 321 PHE ILE TYR GLN ASN MET MET ILE GLU SER ASN ILE ILE
SEORES 8 A 321 HIS ALA ALA HIS GLN ASN ASP VAL ASN LYS LEU LEU PHE
SEORES 9 A 321 LEU GLY SER SER CYS ILE TYR PRO LYS LEU ALA LYS GLN
SEQRES 10 A 321 PRO MET ALA GLU SER GLU LEU LEU GLN GLY THR LEU GLU
SEQRES 11 A 321 PRO THR ASN GLU PRO TYR ALA ILE ALA LYS ILE ALA GLY
SEQRES 12 A 321 ILE LYS LEU CYS GLU SER TYR ASN ARG GLN TYR GLY ARG
SEQRES 13 A 321 ASP TYR ARG SER VAL MET PRO THR ASN LEU TYR GLY PRO
SEQRES 14 A 321 HIS ASP ASN PHE HIS PRO SER ASN SER HIS VAL ILE PRO
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SEORES 15 A 321 ALA LEU LEU ARG ARG PHE HIS GLU ALA THR ALA GLN ASN
      16 A 321 ALA PRO ASP VAL VAL TRP GLY SER GLY THR PRO MET
SEQRES
SEORES
      17 A
            321 ARG GLU PHE LEU HIS VAL ASP ASP MET ALA ALA SER
SEORES 18 A
            321 ILE HIS VAL MET GLU LEU ALA HIS GLU VAL TRP LEU GLU
SEQRES 19 A 321 ASN THR GLN PRO MET LEU SER HIS ILE ASN VAL GLY THR
            321
SEORES 20 A
                GLY VAL ASP CYS THR ILE ARG GLU LEU ALA GLN THR ILE
SEQRES 21 A
            321 ALA LYS VAL VAL GLY TYR LYS GLY ARG VAL VAL PHE ASP
SEQRES 22 A 321 ALA SER LYS PRO ASP GLY THR PRO ARG LYS LEU LEU ASP
SEQRES 23 A 321 VAL THR ARG LEU HIS GLN LEU GLY TRP TYR HIS GLU ILE
SEORES 24 A 321 SER LEU GLU ALA GLY LEU ALA SER THR TYR GLN TRP PHE
SEQRES 25 A 321 LEU GLU ASN GLN ASP ARG PHE ARG GLY
HET NDP
            350
                    48
HETNAM
         NDP NADPH DIHYDRO-NICOTINAMIDE-ADENINE-DINUCLEOTIDE
        2 NDP PHOSPHATE
HETNAM
                C21 H30 N7 O17 P3
FORMUL
        2 NDP
FORMUL 3 HOH *84 (H2 O)
        1
           1 MET A
                    14 GLU A
                                                                   11
HELIX
HELIX
        2.
           2 SER A
                     44 SER A
                               5.3
                                                                   10
          3 ILE A
                               74
       3
                     69 THR A
HELIX
                                                                    6
                    76 ASN A
HELIX
        4
           4 PRO A
                               97
                                                                   22
       5
          5 SER A
                        ILE A 110
HELIX
                   108
                                   5
                                                                    3
HELIX
       6
          6 GLU A
                   121
                       GLU A 123
                                   5
                                                                    3
HELIX
       7
          7 PRO A
                   131
                        TYR A 154
                                   5
                                                                   24
HELIX
       8
          8 VAL A
                   180 ALA A 193
                                                                    14
HELIX
       9
           9 VAL A 214 GLU A 226
                                                                    13
                                                                    7
       10
          10 HIS A 229
                               235
HELIX
                        ASN A
                                                                    12
HELIX
       11
          11 ILE A 253
                        VAL A
                               264
          12 THR A 288
HELIX
       12
                        GLN A 292
                                                                    5
          13 LEU A 301 GLU A 314
                                                                   14
HELIX
       13
                                   1
          A 6 VAL A 29 VAL A 32 0
SHEET
SHEET
           A 6 GLN A
                     4 ALA A
                               9 1 N GLN A
                                               4
                                                   O GLU A
SHEET
        3
           A 6 GLN A 58 LEU A 61 1 N GLN A 58
                                                   O PHE A
                                                             7
           A 6 LYS A 101 LEU A 105
SHEET
        4
                                   1 N LYS A 101
                                                   O VAL A 59
SHEET
        5
           A 6 ASP A 157
                         PRO A 163
                                   1 N ASP A 157
                                                   0
                                                      LEU A 102
SHEET
       6
          A 6 ILE A 243 VAL A 245 1 N ILE A 243
                                                   0
                                                      MET A 162
SHEET
       1 B 2 ASN A 165 TYR A 167 0
        2 B 2 PHE A 211 HIS A 213 1 N LEU A 212
SHEET
                                                  O ASN A 165
SHEET
       1
           C 2 ASP A 198 TRP A 202 0
SHEET
        2
           C 2 ARG A 269 ASP A 273 1 N ARG A 269 O VAL A 199
CISPEP 1 GLN A 117 PRO A 118 0 -0.17
CRYST1 104.300 104.300 74.900 90.00 90.00 120.00 P 32 2 1
           1.000000 0.000000 0.000000
                                           0.00000
ORIGX1
          0.000000 1.000000 0.000000
                                           0.00000
ORIGX2
          0.000000 0.000000 1.000000
ORIGX3
                                          0.00000
           0.009588 0.005535 0.000000
SCALE1
                                          0.00000
          0.000000 0.011071 0.000000
SCALE2
                                          0.00000
          0.000000 0.000000 0.013351
                                           0.00000
SCALE3
                             8.814 27.418 31.593 1.00 62.99
10.166 26.993 31.124 1.00 64.49
ATOM
         1 N
              LYS A 3
         2 CA LYS A
ATOM
                      3
                                                                      С
               LYS A 3
                            10.337 27.108 29.598 1.00 63.28
                                                                      С
MOTA
         3 C
                             9.731 26.358
         4 0
               LYS A 3
                                           28.819 1.00 64.40
MOTA
                                           31.576 1.00 64.00
MOTA
         5 CB LYS A 3
                            10.471
                                    25.562
                            11.806 25.050
                                           31.073 1.00 66.50
         6 CG LYS A 3
ATOM
               LYS A
                             12.036 23.598 31.422 1.00 69.96
ATOM
         7 CD
                      3
         8 CE LYS A
ATOM
                      3
                            12.218 23.408 32.913 1.00 72.33
                                                                      С
        9 NZ LYS A 3
                          12.644 22.017 33.224 1.00 73.75
ATOM
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ATOM	10	N	GLN	Α	4	11.215	28.026	29.203	1.00	58.48
ATOM	11	CA	GLN	Α	4	11.548	28.326	27.813	1.00	51.85
ATOM	12	С	GLN	Α	4	12.184	27.171	27.042	1.00	48.03
ATOM	13	0	GLN	Α	4	13.185	26.610	27.480	1.00	49.95
ATOM	14	СВ	GLN		4	12.534	29.492	27.807		53.77
ATOM	15	CG	GLN		4	12.087	30.690	27.015		62.44
ATOM	16	CD	GLN		4	10.741	31.197	27.453		62.62
ATOM	17	OE1	GLN		4	9.908	31.561	26.629		63.42
ATOM	18	NE2	GLN		4	10.512	31.213	28.758		66.55
ATOM	19	N	ARG		5	11.611	26.815	25.897		41.37
ATOM	20	CA	ARG		5	12.190	25.763	25.065		41.20
ATOM	21	C	ARG		5	13.063	26.415	23.978		41.40
ATOM	22	0	ARG		5	12.558	27.075	23.061		38.26
ATOM	23	CB	ARG		5	11.103	24.882	24.459		42.29
	24				5	10.594	23.833	25.427		
MOTA		CG	ARG		5					44.79
MOTA	25	CD	ARG			9.360	23.117 22.382	24.902		50.21
ATOM	26	NE	ARG		5	9.572		23.650		51.40
ATOM	27	CZ	ARG		5	10.239	21.234	23.541		51.72
ATOM	28	NH1	ARG		5	10.789	20.669	24.609	1.00	
ATOM	29	NH2	ARG		5	10.305	20.618	22.368		48.25
ATOM	30	N	VAL		6	14.377	26.242	24.112		38.40
ATOM	31	CA	VAL		6	15.355	26.829	23.200		33.75
ATOM	32	С	VAL		6	16.028	25.873	22.211		35.52
ATOM	33	0	VAL		6	16.567	24.832	22.595		37.14
ATOM	34	СВ	VAL		6	16.451	27.536	24.006		30.08
ATOM	35	CG1			6	17.447	28.220	23.092		27.75
ATOM	36	CG2	VAL		6	15.822	28.522	24.951		30.98
ATOM	37	И	PHE		7	15.983	26.245	20.932		34.47
ATOM	38	CA	PHE	А	7	16.625	25.483	19.863	1.00	29.57
ATOM	39	С	PHE	А	7	17.907	26.215	19.501	1.00	30.16
MOTA	40	0	PHE	Α	7	17.882	27.402	19.172	1.00	31.57
MOTA	41	CB	PHE	Α	7	15.743	25.420	18.613	1.00	27.56
MOTA	42	CG	PHE	А	7	16.427	24.819	17.403	1.00	27.44
MOTA	43	CD1	PHE	А	7	17.130	23.618	17.499	1.00	27.34
ATOM	44	CD2	PHE	Α	7	16.326	25.432	16.150	1.00	26.01
ATOM	45	CE1	PHE	Α	7	17.720	23.031	16.364	1.00	23.75
ATOM	46	CE2	PHE	А	7	16.911	24.854	15.012	1.00	26.58
ATOM	47	CZ	PHE	Α	7	17.606	23.651	15.119	1.00	25.98
ATOM	48	N	ILE	Α	8	19.031	25.522	19.624	1.00	29.12
ATOM	49	CA	ILE	Α	8	20.314	26.085	19.255	1.00	26.49
ATOM	50	С	ILE	Α	8	20.713	25.314	18.011	1.00	24.35
ATOM	51	0	ILE	Α	8	20.977	24.116	18.083		27.37
ATOM	52	СВ	ILE		8	21.383	25.868	20.344		28.91
ATOM	53	CG1	ILE		8	20.940	26.496	21.667		27.52
ATOM	54		ILE		8	22.713	26.490	19.899		31.48
ATOM	55	CD1	ILE		8	21.852	26.162	22.830		25.68
ATOM	56	N	ALA		9	20.651	25.974	16.860		25.39
ATOM	57	CA	ALA		9	21.021	25.340	15.597		25.85
ATOM	58	C	ALA		9	22.545		15.566		26.61
ATOM	59	0	ALA		9	23.191	26.272	15.947		30.10
ATOM	60	СВ	ALA		9	20.488	26.148	14.428		23.29
ATOM	61	N	GLY		10	23.114	24.170	15.149		25.76
ATOM	62	CA	GLY		10	24.559		15.105		22.84
ATOM	63	C	GLY		10	25.174		16.491		26.20
ATOM	64	0	GLY		10		24.675	16.710		27.87
ATOM	65	N	HIS		11	24.567		17.416		24.58
77 1 014	0.5	TA	1110			24.00/	23.300	T / • # T O	± • 0 0	24.00

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ATOM	66	CA	HIS	Δ	11	25.034	23.227	18.809	1.00 28.86
ATOM	67	C	HIS			26.407		19.001	1.00 29.65
ATOM	68					26.985	22.646	20.082	1.00 20.53
		0	HIS						
ATOM	69	СВ	HIS		11	23.982	22.526	19.692	1.00 27.63
ATOM	70	CG	HIS		11	23.752	21.090	19.324	1.00 30.54
ATOM	71		HIS		11	24.250	20.042	20.068	1.00 34.18
ATOM	72	CD2	HIS	Α	11	23.170	20.534	18.236	1.00 27.15
ATOM	73	CE1	HIS	Α	11	23.997	18.903	19.447	1.00 31.05
ATOM	74	NE2	HIS	Α	11	23.344	19.175	18.333	1.00 33.79
ATOM	75	N	ARG		12			17.970	1.00 31.33
ATOM	76	CA	ARG		12			18.017	1.00 33.17
ATOM	77	C	ARG					17.598	1.00 32.79
ATOM	78	0	ARG		12				1.00 34.69
ATOM	79	CB	ARG		12			17.104	1.00 40.96
ATOM	80	CG	ARG		12	27.341	18.821	17.603	1.00 54.63
ATOM	81	CD	ARG		12	27.978	18.236	18.847	1.00 71.23
ATOM	82	NE	ARG		12	27.024	17.489	19.662	1.00 84.20
ATOM	83	CZ	ARG	Α	12	26.537	16.291	19.348	1.00 90.48
ATOM	84	NH1	ARG	Α	12	26.917	15.682	18.225	1.00 90.63
ATOM	85	NH2	ARG	Α	12	25.666	15.701	20.164	1.00 90.23
ATOM	86	N	GLY			29.031	23.189	16.922	1.00 30.40
ATOM	87	CA	GLY		13			16.475	1.00 25.39
ATOM	88	C	GLY		13	30.695		17.612	1.00 26.60
ATOM	89	0	GLY		13		24.767	18.754	1.00 27.40
ATOM	90	N	MET		14		25.667	17.291	1.00 25.20
ATOM	91	CA	MET				26.464	18.275	1.00 27.06
ATOM	92	С	MET				27.414	19.042	1.00 27.75
ATOM	93	0	MET	Α		31.489	27.390	20.278	1.00 29.79
MOTA	94	СВ	MET	Α	14	33.570	27.250	17.617	1.00 26.09
ATOM	95	CG	MET	Α	14	34.351	28.106	18.607	1.00 31.81
ATOM	96	SD	MET	Α	14	35.825	28.895	17.942	1.00 36.87
ATOM	97	CE	MET		14		30.010	16.777	1.00 38.38
ATOM	98	N	VAL		15	30.791	28.249	18.305	1.00 30.68
ATOM	99	CA	VAL		15	29.878	29.228	18.900	1.00 30.45
ATOM	100	C	VAL			28.618	28.545	19.454	1.00 29.29
									1.00 27.30
ATOM	101	0	VAL				28.857	20.562	
ATOM	102	CB	VAL				30.343		
ATOM	103		VAL				31.418		1.00 31.29
ATOM	104		VAL		15	30.728	30.975	17.282	1.00 29.91
ATOM	105	N			16				1.00 25.10
ATOM	106	CA	GLY	Α	16	26.883	26.898	19.110	1.00 27.18
ATOM	107	С	GLY	Α	16	27.079	26.194	20.439	1.00 29.83
ATOM	108	0	GLY	Α	16	26.257	26.343	21.347	1.00 27.54
ATOM	109	N	SER	Α	17	28.180	25.452	20.565	1.00 29.97
ATOM	110	CA	SER		17	28.495	24.713	21.787	1.00 27.89
ATOM	111	С	SER		17	28.730	25.614	22.998	1.00 27.51
ATOM	112	0	SER		17	28.393	25.246	24.117	1.00 27.85
					17	29.699	23.794		1.00 27.72
ATOM	113	CB	SER					21.562	
ATOM	114	OG	SER		17	30.899	24.530	21.447	1.00 32.49
ATOM	115	N	ALA		18	29.303	26.793	22.772	1.00 26.72
ATOM	116	CA	ALA		18	29.558	27.731	23.856	1.00 23.25
ATOM	117	С	ALA		18	28.255	28.270	24.414	1.00 27.51
ATOM	118	0	ALA	А	18	28.141	28.509	25.613	1.00 32.73
MOTA	119	CB	ALA	А	18	30.432	28.876	23.375	1.00 23.92
ATOM	120	N	ILE	Α	19	27.289	28.515	23.537	1.00 27.22
ATOM	121	CA	ILE	Α	19	25.989	29.008	23.964	1.00 27.26

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ATOM	122	С	ILE	Α	19	25.309	27.885	24.746	1.00 30.95
ATOM	123	0	ILE	Α	19	24.722	28.121	25.802	1.00 31.85
ATOM	124	СВ	ILE		19	25.124	29.426	22.758	1.00 24.40
ATOM	125	CG1	ILE		19	25.687	30.717	22.152	1.00 26.80
ATOM	126	CG2	ILE	Α	19	23.658	29.618	23.175	1.00 22.10
ATOM	127	CD1	ILE	Α	19	25.031	31.129	20.834	1.00 27.70
ATOM	128	N	ARG		20	25.453	26.660	24.245	1.00 33.43
ATOM	129	CA	ARG		20	24.877	25.480	24.868	1.00 34.66
ATOM	130	С	ARG	Α	20	25.439	25.257	26.272	1.00 36.46
ATOM	131	0	ARG	Α	20	24.684	25.028	27.210	1.00 37.71
ATOM	132	СВ	ARG		20	25.112	24.254	23.987	1.00 35.12
ATOM	133	CG	ARG		20	24.389	23.022	24.466	1.00 42.11
ATOM	134	CD	ARG	А	20	25.326	22.086	25.192	1.00 49.73
MOTA	135	NE	ARG	Α	20	25.823	21.037	24.304	1.00 58.77
ATOM	136	CZ	ARG	Α	20	25.282	19.820	24.204	1.00 63.42
ATOM	137	NH1	ARG		20	24.227	19.493	24.946	1.00 61.95
ATOM	138		ARG		20	25.773	18.933	23.339	1.00 62.99
ATOM	139	Ν	ARG	Α	21	26.755	25.370	26.421	1.00 36.56
ATOM	140	CA	ARG	Α	21	27.402	25.186	27.716	1.00 34.60
ATOM	141	С	ARG		21	26.833	26.104	28.780	1.00 35.46
ATOM	142	0	ARG		21	26.672	25.698	29.927	1.00 38.07
ATOM	143	СВ	ARG	Α	21	28.906	25.431	27.611	1.00 30.90
ATOM	144	CG	ARG	Α	21	29.710	24.190	27.306	1.00 30.19
ATOM	145	CD	ARG	Α	21	31.175	24.533	27.156	1.00 28.95
ATOM	146	NE	ARG		21	31.566	24.636	25.754	1.00 36.91
ATOM	147	CZ	ARG		21	32.235	25.658	25.242	1.00 33.76
ATOM	148	NH1	ARG	Α	21	32.584	26.669	26.020	1.00 38.80
ATOM	149	NH2	ARG	Α	21	32.572	25.660	23.958	1.00 44.47
ATOM	150	Ν	GLN	Α	22	26.529	27.338	28.397	1.00 36.46
		CA			22	25.994	28.316	29.330	1.00 39.08
ATOM	151		GLN						
ATOM	152	С	GLN		22	24.515	28.207	29.614	1.00 41.81
ATOM	153	0	GLN	Α	22	24.063	28.607	30.686	1.00 43.56
ATOM	154	CB	GLN	Α	22	26.313	29.722	28.868	1.00 40.00
ATOM	155	CG	GLN		22	27.581	30.237	29.461	1.00 47.83
					22	27.908	31.610	28.972	1.00 50.44
ATOM	156	CD	GLN						
ATOM	157	OE1	GLN		22	28.967	31.832	28.378	1.00 54.03
ATOM	158	NE2	GLN	Α	22	26.998	32.550	29.203	1.00 51.37
ATOM	159	N	LEU	Α	23	23.753	27.708	28.649	1.00 41.76
ATOM	160	CA	LEU	Α	23	22.318	27.564	28.843	1.00 45.71
	161					21.988			
ATOM		С	LEU		23		26.261	29.566	1.00 49.37
ATOM	162	0	LEU		23	20.936	26.129	30.198	1.00 52.41
MOTA	163	CB	LEU	Α	23	21.562	27.657	27.515	1.00 39.19
ATOM	164	CG	LEU	Α	23	21.473	29.028	26.837	1.00 35.15
ATOM	165		LEU		23	20.498	28.931	25.679	1.00 32.29
					23			27.808	1.00 30.41
ATOM	166		LEU			21.012	30.092		
ATOM	167	Ν	GLU		24	22.900	25.303	29.480	1.00 52.04
ATOM	168	CA	GLU	Α	24	22.722	24.026	30.145	1.00 57.09
ATOM	169	С	GLU	Α	24	22.812	24.268	31.649	1.00 59.69
ATOM	170	0	GLU		24	22.184	23.569	32.440	1.00 59.79
					24	23.828		29.709	1.00 58.51
ATOM	171	CB	GLU				23.080		
ATOM	172	CG	GLU		24	23.376	21.663	29.479	1.00 63.84
ATOM	173	CD	GLU	Α	24	24.291	20.940	28.514	1.00 68.43
ATOM	174	OE1	GLU	А	24	25.532	21.092	28.629	1.00 67.19
ATOM	175		GLU		24	23.764	20.240	27.622	1.00 70.80
ATOM	176	N	GLN		25	23.561	25.303	32.020	1.00 63.22
ATOM	177	CA	GLN	Α	25	23.770	25.681	33.413	1.00 66.53

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ATOM	234	С	VAL A	32	17.186	21.164	20.960	1.00 38.86	
ATOM	235	0	VAL A	32	17.497	22.216	20.404	1.00 40.67	
ATOM	236	CB	VAL A	32	14.726	21.643	21.228	1.00 38.00	
ATOM	237	CG1	VAL A	32	14.294	20.692	20.117	1.00 29.60	
ATOM	238	CG2	VAL A	32	13.608	21.833	22.247	1.00 34.28	
ATOM	239	N	LEU A	33	17.881	20.043	20.817	1.00 38.26	
ATOM	240	CA	LEU A	33	19.051	19.984	19.951	1.00 37.51	
ATOM	241	С	LEU A	33	18.917	18.884	18.917	1.00 39.70	
ATOM	242	0	LEU A	33	18.350	17.831	19.195	1.00 42.91	
ATOM	243	СВ	LEU A	33	20.307	19.757	20.796	1.00 37.35	
ATOM	244	CG	LEU A	33	20.475	20.665	22.026	1.00 37.37	
ATOM	245	CD1	LEU A	33	21.648	20.193	22.860	1.00 35.76	
ATOM	246	CD2	LEU A	33	20.654	22.126	21.624	1.00 36.53	
ATOM	247	N	ARG A	34	19.478	19.118	17.737	1.00 38.49	
ATOM	248	CA	ARG A	34	19.421	18.165	16.638	1.00 39.48	
ATOM	249	C	ARG A	34	20.757	18.167	15.917	1.00 42.28	
ATOM	250	0	ARG A	34	21.274	19.228	15.586	1.00 43.64	
ATOM	251	СВ	ARG A	34	18.329	18.592	15.659	1.00 40.22	
ATOM	252	CG	ARG A	34	17.155	17.649	15.534	1.00 43.09	
ATOM	253	CD	ARG A	34	16.710	17.180	16.879	1.00 44.23	
ATOM	254	NE	ARG A	34	15.293	16.867	16.922	1.00 44.49	
ATOM	255	CZ	ARG A	34	14.573	16.906	18.034	1.00 46.08	
ATOM	256	NH1	ARG A	34	15.146	17.236	19.187	1.00 46.87	
ATOM	257	NH2	ARG A	34	13.273	16.662	17.989	1.00 47.09	
ATOM	258	N	THR A	35	21.329	16.989	15.689	1.00 43.97	
ATOM	259	CA	THR A	35	22.602	16.904	14.974	1.00 45.87	
ATOM	260	C	THR A	35	22.336	17.035	13.478	1.00 47.43	
ATOM	261	0	THR A	35	21.181	16.994	13.041	1.00 45.83	
ATOM	262	CB	THR A	35	23.313	15.559	15.205	1.00 43.91	
ATOM	263	OG1	THR A	35	22.489	14.491	14.720	1.00 45.89	
ATOM	264	CG2	THR A	35	23.625	15.354	16.673	1.00 43.89	
ATOM	265	N N	ARG A	36	23.408	17.184	12.694	1.00 48.50	
ATOM	266 267	CA C	ARG A ARG A	36 36	23.271 22.631	17.308	11.242 10.687	1.00 49.16 1.00 49.57	
ATOM	268			36		16.037	9.692	1.00 49.37	
ATOM		O	ARG A		21.870	16.072			
ATOM	269	CB	ARG A	36	24.628	17.525	10.577	1.00 49.50	
ATOM	270	CG	ARG A	36	24.510	17.511	9.053	1.00 53.20	
ATOM	271	CD	ARG A	36	25.877	17.333	8.397	1.00 54.57	
ATOM	272	NE	ARG A	36	26.708	18.530	8.547	1.00 54.62	
ATOM	273	CZ	ARG A	36	26.838		7.603	1.00 54.52	
ATOM	274		ARG A	36	26.173		6.446	1.00 54.97	
ATOM	275		ARG A	36	27.699		7.766	1.00 53.24	
ATOM	276	N	ASP A	37	22.946	14.904	11.322	1.00 51.90	
ATOM	277	CA	ASP A	37	22.364	13.631	10.887	1.00 54.11	
ATOM	278	С	ASP A	37	20.888	13.520	11.271	1.00 50.88	
ATOM	279	0	ASP A	37	20.115	12.844	10.565	1.00 50.88	
ATOM	280	CB	ASP A	37	23.148	12.448	11.463	1.00 61.89	
ATOM	281	CG	ASP A	37	24.477		10.733	1.00 68.54	
ATOM	282		ASP A	37	24.540		9.482	1.00 70.79	
ATOM	283		ASP A	37	25.469		11.410	1.00 72.97	
ATOM	284	N	GLU A	38	20.500		12.369	1.00 48.31	
ATOM	285	CA	GLU A	38	19.112	14.140	12.806	1.00 45.48	
ATOM	286	С	GLU A	38	18.261		12.040	1.00 44.85	
ATOM	287	0	GLU A	38	17.081		11.775	1.00 44.04	
ATOM	288	СВ	GLU A	38	19.011		14.301	1.00 48.73	
ATOM	289	CG	GLU A	38	19.594	13.362	15.199	1.00 53.37	

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ATOM	290	CD	GLU	7\	38	19.430	13.711	16.664	1.00 58.58
								17.218	
ATOM	291	OE1	GLU		38	20.295	14.423		
ATOM	292	OE2	GLU		38	18.419	13.292	17.265	1.00 62.76
MOTA	293	N	LEU		39	18.855	16.293	11.687	1.00 41.50
ATOM	294	CA	LEU	А	39	18.113	17.321	10.968	1.00 38.30
ATOM	295	С	LEU	Α	39	19.001	18.089	10.006	1.00 37.08
ATOM	296	0	LEU	Α	39	19.888	18.829	10.430	1.00 34.86
MOTA	297	СВ	LEU	Α	39	17.475	18.303	11.957	1.00 34.87
ATOM	298	CG	LEU	Α	39	16.656	19.464	11.373	1.00 35.83
ATOM	299	CD1	LEU	Α	39	15.423	18.927	10.673	1.00 33.47
ATOM	300	CD2	LEU	А	39	16.265	20.449	12.472	1.00 31.29
ATOM	301	N	ASN		40	18.779	17.897	8.711	1.00 37.68
ATOM	302	CA	ASN		40	19.562	18.617	7.719	1.00 36.32
ATOM	303	C	ASN		40	18.935	19.992	7.503	1.00 32.98
ATOM	304	0	ASN		40	17.858	20.108	6.907	1.00 32.30
									1.00 29.82
ATOM	305	CB	ASN		40	19.618	17.855	6.397	
ATOM	306	CG	ASN		40	20.536	18.522	5.390	1.00 43.35
ATOM	307	OD1	ASN		40	21.367	19.362	5.750	1.00 42.66
ATOM	308	ND2	ASN		40	20.383	18.162	4.120	1.00 43.07
ATOM	309	N	LEU		41	19.626	21.030	7.967	1.00 29.70
ATOM	310	CA	LEU	Α	41	19.134	22.395	7.858	1.00 28.83
ATOM	311	С	LEU	А	41	18.995	22.938	6.434	1.00 29.73
ATOM	312	0	LEU	Α	41	18.363	23.968	6.222	1.00 28.44
ATOM	313	CB	LEU	Α	41	19.973	23.332	8.723	1.00 24.99
ATOM	314	CG	LEU	Α	41	19.959	23.045	10.226	1.00 24.91
ATOM	315	CD1	LEU	Α	41	20.864	24.012	10.938	1.00 25.14
ATOM	316	CD2	LEU	Α	41	18.559	23.150	10.792	1.00 24.69
ATOM	317	N	LEU		42	19.577	22.251	5.457	1.00 32.21
ATOM	318	CA		A	42	19.455	22.675	4.057	1.00 33.93
ATOM	319	C	LEU		42	18.115	22.218	3.477	1.00 35.76
ATOM	320	0	LEU		42	17.639	22.763	2.478	1.00 37.82
ATOM	321	CB	LEU		42	20.591	22.103	3.207	1.00 37.02
ATOM	322	CG	LEU		42	21.990	22.103	3.460	1.00 31.23
	323				42				1.00 35.14
ATOM		CD1	LEU			22.999	21.943	2.592	
ATOM	324	CD2	LEU		42	22.000	24.149	3.157	1.00 33.92
ATOM	325	N	ASP		43	17.517	21.214	4.112	1.00 36.08
ATOM	326	CA		A	43	16.239	20.659	3.684	1.00 37.80
ATOM	327	С	ASP		43	15.070	21.476	4.261	1.00 38.26
ATOM	328	0	ASP		43	14.749	21.370	5.449	1.00 37.57
ATOM	329	СВ	ASP		43	16.162	19.190	4.132	1.00 39.46
ATOM	330	CG	ASP		43	14.967	18.426	3.537	1.00 40.27
ATOM	331	OD1	ASP	А	43	14.109	18.999	2.825	1.00 42.87
ATOM	332	OD2	ASP	А	43	14.894	17.212	3.795	1.00 43.06
MOTA	333	N	SER	А	44	14.418	22.256	3.397	1.00 37.79
ATOM	334	CA	SER	Α	44	13.282	23.098	3.784	1.00 39.19
ATOM	335	С	SER	А	44	12.146	22.340	4.481	1.00 38.48
ATOM	336	0	SER		44	11.696	22.757	5.549	1.00 37.63
ATOM	337	СВ	SER		44	12.722	23.831	2.560	1.00 39.04
ATOM	338	OG	SER		44	13.722	24.604	1.926	1.00 46.91
ATOM	339	N	ARG		45	11.689	21.239	3.873	1.00 36.92
ATOM	340	CA	ARG		45	10.597	20.423	4.422	1.00 36.41
ATOM	341	C	ARG		45	10.936	19.847	5.795	1.00 34.11
ATOM	342	0	ARG		45	10.936	19.883	6.707	1.00 34.11
						10.202	19.003	3.433	1.00 35.35
ATOM	343	CB N	ARG		45 46				
ATOM	344	N	ALA		46	12.166	19.373	5.955	1.00 33.82
ATOM	345	CA	ALA	А	46	12.607	18.810	7.228	1.00 33.22

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ATOM	346	С	ALA	A	46	12.586	19.870	8.
ATOM	347	0	ALA	Α	46	12.149	19.605	9.
ATOM	348	СВ	ALA	Α	46	14.006	18.226	7.
ATOM	349	N	VAL	Α	47	13.041	21.074	7.
ATOM	350	CA	VAL		47	13.077	22.174	8.
ATOM	351	С	VAL	Α	47	11.665	22.606	9.
ATOM	352	0	VAL	Α	47	11.403	22.827	10.
ATOM	353	СВ	VAL		47	13.913	23.365	8.
ATOM	354	CG1	VAL		47	13.929	24.533	9.
ATOM	355	CG2	VAL	А	47	15.337	22.909	8.
ATOM	356	N	HIS	Α	48	10.751	22.715	8.
ATOM	357	CA	HIS	A	48	9.376	23.096	8.
ATOM	358	С	HIS		48	8.721	22.004	9.
ATOM	359	0	HIS	A	48	8.069	22.301	10.
ATOM	360	СВ	HIS	A	48	8.558	23.397	7.
ATOM	361	CG	HIS	A	48	8.829	24.754	6.
ATOM	362	ND1	HIS		48	9.990	25.058 25.896	6.
ATOM	363 364	CD2	HIS	A 7	48 48	8.098	26.324	6. 5.
ATOM ATOM	364 365	CE1 NE2	HIS HIS	A A	48	9.962 8.824	26.856	6.
ATOM	366	NEZ N	ASP	A	49	8.965	20.742	9.
ATOM	367	CA	ASP	A	49	8.408	19.616	9.
ATOM	368	CA	ASP	A	49	8.860	19.645	11.
ATOM	369	0	ASP	A	49	8.058	19.428	12.
ATOM	370	СВ	ASP	A	49	8.809	18.288	9.
ATOM	371	CG	ASP	A	49	7.985	17.948	8.
ATOM	372	OD1	ASP	A	49	7.091	18.742	7.
ATOM	373	OD2	ASP	Α	49	8.235	16.870	7.
ATOM	374	N	PHE	Α	50	10.146	19.921	11.
ATOM	375	CA	PHE	Α	50	10.714	20.005	12.
MOTA	376	С	PHE	Α	50	10.061	21.131	13.
ATOM	377	0	PHE	Α	50	9.643	20.921	14.
ATOM	378	СВ	PHE	А	50	12.230	20.217	12.
ATOM	379	CG	PHE	Α	50	12.850	20.720	14.
ATOM	380	CD1	PHE	Α	50	13.101	19.857	15.
ATOM	381	CD2	PHE	A	50	13.172	22.070	14.
ATOM	382	CE1	PHE	A	50	13.664	20.332	16.
ATOM	383	CE2			50	13.734	22.558	15.
ATOM	384	CZ	PHE	A	50	13.980	21.688	16.
ATOM ATOM	385 386	N CA	PHE PHE	A A	51 51	9.985 9.388	22.327 23.462	13. 13.
ATOM	387	CA		A	51	7.903	23.462	14.
ATOM	388	0	PHE		51	7.341	23.802	15.
ATOM	389	CB	PHE		51	9.602	24.752	13.
ATOM	390	CG		A	51	10.905	25.447	13.
ATOM	391	CD1	PHE	A	51	11.046	26.210	14.
ATOM	392	CD2	PHE	A	51	11.990	25.350	12.
ATOM	393	CE1	PHE	A	51	12.254	26.873	14.
ATOM	394	CE2	PHE	A	51	13.200	26.011	12.
ATOM	395	CZ	PHE	A	51	13.328	26.772	13.
ATOM	396	N	ALA		52	7.277	22.435	13.
ATOM	397	CA	ALA		52	5.860	22.106	13.
ATOM	398	С	ALA		52	5.613	21.070	14.
ATOM	399	0	ALA		52	4.607		15.
7.00	100	O.D.		-	F 0	F 200	01 500	1 0

333 1.00 33.66 С 464 1.00 35.07 0 084 1.00 32.17 С 991 1.00 31.27 N 946 1.00 30.24 С 352 1.00 31.13 С 537 1.00 32.08 0 400 1.00 29.11 С С 385 1.00 29.36 С 155 1.00 25.20 388 1.00 35.31 N 717 1.00 38.94 С 562 1.00 38.54 С 559 1.00 38.19 0 458 1.00 41.94 С 876 1.00 56.13 С 190 1.00 59.59 N 892 1.00 58.33 С 812 1.00 57.68 С 226 1.00 57.78 N 210 1.00 41.61 N 959 1.00 42.36 С 405 1.00 41.75 С 313 1.00 42.14 0 330 1.00 45.77 С 094 1.00 52.81 С 709 1.00 53.04 0 709 1.00 53.04 506 1.00 56.26 0 609 1.00 38.69 N С 945 1.00 35.96 754 1.00 36.38 С 889 1.00 36.72 0 856 1.00 34.10 С 131 1.00 34.38 С 188 1.00 34.43 С 280 1.00 36.91 С 381 1.00 35.07 С 468 1.00 35.30 С 517 1.00 35.27 С 179 1.00 36.53 Ν 880 1.00 36.38 С 159 1.00 39.77 С 119 1.00 36.92 0 С 091 1.00 34.24 400 1.00 33.88 С 556 1.00 32.20 С 530 1.00 33.92 С 841 1.00 36.14 С 809 1.00 34.40 С 966 1.00 28.85 С 309 1.00 41.91 443 1.00 45.03 С 551 1.00 46.49 С 399 O ALA A 52 4.607 21.145 15.254 1.00 49.13 400 CB ALA A 52 5.308 21.598 12.113 1.00 42.39 0 С 6.532 20.114 14.700 1.00 46.86

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ATOM	402	CA	SER	7\	53	6.417	19.068	15.713	1.00 46.18
ATOM	403	C			53	6.841	19.528	17.091	1.00 47.30
			SER						
ATOM	404	0	SER		53	6.224	19.149	18.076	1.00 50.58
ATOM	405	СВ	SER		53	7.252	17.859	15.326	1.00 46.02
ATOM	406	OG	SER		53	6.846	17.376	14.064	1.00 55.98
ATOM	407	N	GLU	Α	54	7.929	20.289	17.166	1.00 46.61
ATOM	408	CA	GLU	Α	54	8.427	20.789	18.443	1.00 47.30
ATOM	409	С	GLU	Α	54	7.778	22.111	18.795	1.00 48.35
ATOM	410	0	GLU	Α	54	7.229	22.795	17.928	1.00 53.70
ATOM	411	СВ	GLU	A	54	9.945	20.971	18.404	1.00 47.96
ATOM	412	CG	GLU		54	10.719	19.709	18.095	1.00 49.95
ATOM	413	CD	GLU		54	10.381	18.567	19.033	1.00 56.61
ATOM	414	OE1	GLU		54	10.360	18.777	20.264	1.00 53.61
	415	OE2	GLU		54	10.127	17.454	18.529	1.00 63.34
ATOM									
ATOM	416	N	ARG		55	7.828	22.469	20.071	1.00 46.72
ATOM	417	CA	ARG		55	7.250	23.727	20.513	1.00 48.22
ATOM	418	С	ARG		55	8.415	24.620	20.925	1.00 47.65
ATOM	419	0	ARG		55	8.802	24.656	22.093	1.00 52.64
ATOM	420	CB	ARG	Α	55	6.284	23.494	21.679	1.00 49.08
ATOM	421	N	ILE	Α	56	8.986	25.316	19.945	1.00 44.38
ATOM	422	CA	ILE	Α	56	10.137	26.193	20.167	1.00 38.21
ATOM	423	С	ILE	Α	56	9.743	27.600	20.594	1.00 34.25
ATOM	424	0	ILE		56	8.851	28.214	20.011	1.00 35.06
ATOM	425	СВ	ILE		56	11.027	26.295	18.888	1.00 36.14
ATOM	426	CG1	ILE		56	11.429	24.901	18.383	1.00 35.12
ATOM	427	CG2	ILE		56	12.276	27.104	19.180	1.00 34.57
ATOM	428	CD1	ILE		56	12.127	24.062	19.424	1.00 34.57
ATOM	429	N	ASP		57	10.414	28.108	21.619	1.00 31.45
ATOM	430	CA	ASP		57	10.148	29.456	22.096	1.00 33.09
ATOM	431	С	ASP		57	11.223	30.428	21.604	1.00 34.76
ATOM	432	0	ASP		57	10.916	31.568	21.259	1.00 33.91
ATOM	433	СВ	ASP	Α	57	10.060	29.489	23.626	1.00 36.39
ATOM	434	CG	ASP	Α	57	8.905	28.659	24.160	1.00 37.50
ATOM	435	OD1	ASP	Α	57	7.743	28.993	23.856	1.00 45.83
ATOM	436	OD2	ASP	Α	57	9.153	27.660	24.863	1.00 38.82
ATOM	437	N	GLN	Α	58	12.477	29.975	21.566	1.00 32.90
ATOM	438	CA	GLN		58	13.602	30.808	21.121	1.00 29.00
ATOM	439	С	GLN		58	14.524	30.032	20.200	1.00 26.40
ATOM	440	0	GLN		58	14.606	28.809	20.285	1.00 25.66
ATOM	441	СВ	GLN		58	14.419	31.291	22.315	1.00 30.53
ATOM	442	CG	GLN		58	13.667	32.158	23.291	1.00 33.88
ATOM	443	CD	GLN		58	14.518	32.547	24.476	1.00 33.33
					58			24.421	
ATOM	444	OE1	GLN			15.749	32.485		1.00 42.50
ATOM	445		GLN		58	13.871	32.953	25.557	1.00 39.12
ATOM	446	N	VAL		59	15.193	30.746	19.301	1.00 26.05
ATOM	447	CA	VAL		59	16.137	30.122	18.374	1.00 22.51
ATOM	448	С	VAL		59	17.455	30.887	18.314	1.00 23.59
ATOM	449	0	VAL		59	17.470	32.115	18.157	1.00 21.64
ATOM	450	СВ	VAL		59	15.589	30.050	16.933	1.00 18.55
ATOM	451	CG1	VAL	А	59	16.663	29.503	15.993	1.00 19.71
ATOM	452	CG2	VAL	А	59	14.365	29.173	16.866	1.00 17.82
ATOM	453	N	TYR	Α	60	18.548	30.168	18.544	1.00 23.40
ATOM	454	CA	TYR		60	19.885	30.739	18.431	1.00 23.22
ATOM	455	C	TYR		60	20.402	30.137	17.131	1.00 22.40
ATOM	456	0	TYR		60	20.632	28.930	17.046	1.00 22.12
ATOM	457	СВ	TYR		60	20.784	30.329	19.593	1.00 22.37
111 011	101	CD				20.70=	00.020		1.00 22.07

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ATOM	458	CG	TYR	А	60	20
MOTA	459	CD1	TYR	Α	60	19
ATOM	460	CD2	TYR	Α	60	21
ATOM	461	CE1	TYR	Α	60	19
ATOM	462	CE2	TYR	Α	60	21
ATOM	463	CZ	TYR	Α	60	20
ATOM	464	ОН	TYR	A	60	19
ATOM	465	N	LEU	A	61	20
ATOM	466	CA	LEU	A	61	20
ATOM	467	С	LEU	Α	61	22
ATOM	468	0	LEU	Α	61	23
ATOM	469	СВ	LEU	Α	61	20
ATOM	470	CG	LEU	Α	61	20
ATOM	471	CD1	LEU	Α	61	20
ATOM	472	CD2	LEU	Α	61	19
ATOM	473	N	ALA	Α	62	23
ATOM	474	CA	ALA	Α	62	24
ATOM	475	С	ALA	Α	62	25
ATOM	476	0	ALA	Α	62	26
ATOM	477	СВ	ALA	Α	62	25
ATOM	478	N	ALA	Α	63	24
ATOM	479	CA	ALA	Α	63	24
ATOM	480	С	ALA	Α	63	25
MOTA	481	0	ALA	Α	63	24
MOTA	482	СВ	ALA	Α	63	23
MOTA	483	N	ALA	Α	64	26
MOTA	484	CA	ALA	Α	64	26
MOTA	485	С	ALA	Α	64	27
ATOM	486	0	ALA	Α	64	28
ATOM	487	СВ	ALA	Α	64	27
ATOM	488	N	LYS	Α	65	28
ATOM	489	CA	LYS	Α	65	29
MOTA	490	С	LYS	Α	65	30
MOTA	491	0	LYS	Α	65	30
MOTA	492	СВ	LYS	Α	65	28
MOTA	493	CG	LYS	Α	65	30
ATOM	494	CD	LYS	Α	65	30
ATOM	495	CE	LYS	Α	65	31
ATOM	496	NΖ	LYS	Α	65	31
ATOM	497	N	VAL	Α	66	31
MOTA	498	CA	VAL	A	66	32
ATOM	499	С	VAL	Α	66	33
ATOM	500	0	VAL	A	66	34
ATOM	501	CB	VAL	A	66	32
ATOM	502	CG1	VAL	A	66	33
ATOM	503	CG2	VAL	A	66	31
ATOM	504	N	GLY	A	67 67	34
ATOM	505	CA	GLY	A	67 67	36
ATOM	506	С	GLY	A	67 67	37
ATOM	507	0	GLY	A	67	36
ATOM	508	N	GLY	A	68 69	38
ATOM	509 510	CA	GLY	A	68 60	39
MOTA	510 511	С	GLY	A 7	68 68	39

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20.551	31.126 30.726	20.848 21.779		23.48	C C
21.299	32.267	21.125		23.94	C
19.377	31.448	22.960	1.00	27.36	С
21.098	32.994	22.308	1.00	24.58	С
20.132	32.573	23.216	1.00		С
19.917	33.263	24.385		28.85	0
20.512	30.966 30.487	16.097	1.00	22.99 25.82	П
	30.487 30.549	14.799 14.729			C
	31.570	14.352	1.00		0
00 000		13.690	1.00		С
20.471	31.019	12.192		29.56	С
20.868	29.581	11.898		31.09	С
19.207	31.410	11.446		23.57	С
23.113 24.578	29.453 29.344	15.141 15.164		22.39	N C
25.120	28.339	14.156	1.00		C
	27.973	14.210			0
25.072	28.989	16.579	1.00	19.79	С
24.257	27.863	13.267		24.40	N
24.659	26.923	12.231		26.04	С
25.142 24.532	27.736 28.744	11.028 10.672		27.62 29.22	C 0
23.485	26.037	11.825		20.58	C
26.243	27.294	10.426		26.22	N
26.828	27.959	9.269	1.00	27.08	С
		8.640			С
0 - 400	0000	9.241	1.00		0
27.406 28.227	29.333 27.435	9.669 7.390	1.00		С И
29.304	26.791	6.652	1.00		C
30.407	27.826	6.851		28.48	C
30.325	28.939	6.344		28.49	0
28.933	26.656	5.174			С
30.090	26.346	4.236			С
	24.925 24.579	4.377		38.88	C
31.750	23.117	3.262	1.00		N
31.372	27.480	7.694		29.22	N
32.483	28.355	8.062		27.65	С
33.849	27.785	7.639	1.00		С
34.011	26.572	7.494	1.00		0
32.445 33.584	28.554 29.406	9.593 10.070	1.00		C C
31.133	29.171	9.981	1.00		C
34.826	28.661	7.438	1.00	25.22	N
36.147	28.201	7.053	1.00	25.93	С
37.162	29.321	6.971	1.00	28.18	С
36.842	30.485	7.224	1.00	27.61	0
38.397 39.476	28.946 29.905	6.631 6.499	1.00		С
39.638	30.474	5.095	1.00		C
38.799	30.260	4.215			0
	31.201	4.896		26.63	N
41.082	31.838	3.629	1.00	25.70	С

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ATOM	514	С	ILE A	69	41.072	30.872	2.444	1.00 24.70
ATOM	515	0	ILE A	69	40.489	31.177	1.409	1.00 21.68
ATOM	516	СВ	ILE A		42.454	32.557	3.762	1.00 30.40
ATOM	517	CG1	ILE A		42.286	33.791	4.647	1.00 32.78
ATOM	518	CG2	ILE A	69	43.016	32.945	2.410	1.00 31.41
ATOM	519	CD1	ILE A	69	43.586	34.423	5.080	1.00 40.98
ATOM	520	N	VAL A		41.678	29.699	2.605	1.00 22.48
ATOM	521	CA	VAL A		41.702	28.714	1.521	1.00 22.87
ATOM	522	С	VAL A	70	40.299	28.201	1.156	1.00 24.18
ATOM	523	0	VAL A	70	39.928	28.181	-0.020	1.00 24.50
ATOM	524	СВ	VAL A		42.655	27.517	1.839	1.00 21.52
	525							
ATOM		CG1	VAL A		42.551	26.432	0.767	1.00 20.34
ATOM	526	CG2	VAL A		44.093	28.011	1.911	1.00 19.88
ATOM	527	N	ALA A	71	39.509	27.844	2.166	1.00 22.21
ATOM	528	CA	ALA A	71	38.166	27.331	1.939	1.00 21.76
ATOM	529	С	ALA A		37.254	28.351	1.261	1.00 21.94
ATOM	530	0	ALA A		36.580	28.026	0.279	1.00 24.88
ATOM	531	СВ	ALA A	71	37.561	26.846	3.251	1.00 20.17
ATOM	532	N	ASN A	72	37.247	29.585	1.759	1.00 21.74
ATOM	533	CA	ASN A	72	36.405	30.632	1.171	1.00 24.24
ATOM	534	C				30.926	-0.304	1.00 25.08
			ASN A		36.683			
ATOM	535	0	ASN A		35.764	31.252	-1.053	1.00 27.00
ATOM	536	CB	ASN A	72	36.467	31.915	2.002	1.00 24.90
ATOM	537	CG	ASN A	72	35.587	31.842	3.231	1.00 27.78
ATOM	538	OD1	ASN A		36.016	31.370	4.281	1.00 27.90
	539		ASN A		34.334	32.265	3.094	1.00 21.38
ATOM								
ATOM	540	N	ASN A		37.946	30.810	-0.711	1.00 22.93
ATOM	541	CA	ASN A	73	38.336	31.030	-2.099	1.00 22.83
ATOM	542	С	ASN A	73	38.244	29.749	-2.936	1.00 24.17
ATOM	543	0	ASN A		38.204	29.810	-4.164	1.00 26.68
ATOM	544	СВ	ASN A		39.762	31.560	-2.181	1.00 21.59
ATOM	545	CG	ASN A		39.857	33.043	-1.908	1.00 25.57
ATOM	546	OD1	ASN A	73	39.280	33.867	-2.627	1.00 28.53
ATOM	547	ND2	ASN A	73	40.631	33.400	-0.887	1.00 27.04
ATOM	548	N	THR A	74	38.248	28.594	-2.275	1.00 23.32
ATOM	549	CA	THR A		38.168	27.315	-2.973	1.00 22.31
ATOM	550	С	THR A		36.730	26.833	-3.200	1.00 22.04
ATOM	551	0	THR A	74	36.413	26.317	-4.274	1.00 20.28
ATOM	552	CB	THR A	74	38.978	26.237	-2.240	1.00 24.22
ATOM	553	OG1	THR A	74	40.342	26.658	-2.171	1.00 20.49
ATOM	554	CG2	THR A		38.894	24.895	-2.968	1.00 20.05
ATOM	555	Ν	TYR A		35.853	27.037	-2.216	1.00 19.87
ATOM	556	CA	TYR A	75	34.459	26.618	-2.350	1.00 20.36
ATOM	557	С	TYR A	75	33.489	27.789	-2.189	1.00 21.70
ATOM	558	0	TYR A	75	32.560	27.713	-1.394	1.00 21.56
ATOM	559	СВ	TYR A		34.128	25.573	-1.293	1.00 23.53
ATOM	560	CG	TYR A		35.165	24.493	-1.136	1.00 29.07
ATOM	561	CD1	TYR A	75	35.107	23.337	-1.908	1.00 33.08
ATOM	562	CD2	TYR A	75	36.201	24.621	-0.207	1.00 30.54
ATOM	563	CE1	TYR A		36.055	22.321	-1.762	1.00 37.73
ATOM	564	CE2	TYR A		37.154	23.619	-0.053	1.00 34.16
ATOM	565	CZ	TYR A		37.073	22.472	-0.834	1.00 38.19
ATOM	566	ОН	TYR A		37.997	21.466	-0.694	1.00 41.23
ATOM	567	N	PRO A	76	33.665	28.872	-2.969	1.00 20.81
ATOM	568	CA	PRO A	76	32.755	30.020	-2.837	1.00 20.59
ATOM	569	C	PRO A		31.256	29.719	-2.996	1.00 20.19
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ATOM	626	NE2	GLN	Α	82	27.171	23.618	3.451	1.00 23.64
ATOM	627	N	ASN	Α	83	24.879	28.830	3.331	1.00 18.93
ATOM	628	CA	ASN	Α	83	24.532	29.783	4.359	1.00 20.46
ATOM	629	С	ASN	Α	83	23.205	30.466	4.046	1.00 21.81
ATOM	630	0	ASN		83	22.395	30.682	4.950	1.00 22.83
ATOM	631	СВ	ASN		83	25.667	30.774	4.607	1.00 17.46
ATOM	632	CG	ASN		83	26.818	30.143	5.396	1.00 26.97
ATOM	633	OD1			83	26.646	29.731	6.541	1.00 28.76
ATOM	634		ASN		83	27.987	30.035	4.770	1.00 27.76
ATOM	635	N	MET		84	22.958	30.757	2.770	1.00 21.20
ATOM	636	CA	MET		84	21.698	31.379	2.378	1.00 20.82
ATOM	637	С	MET		84	20.521	30.440	2.672	1.00 21.23
ATOM	638	0		А	84	19.513	30.872	3.224	1.00 20.25
ATOM	639	СВ	MET		84	21.709	31.760	0.898	1.00 20.35
ATOM	640	CG	MET		84	22.265	33.161	0.582	1.00 19.61
ATOM	641	SD	MET	Α	84	22.376	33.445	-1.236	1.00 25.63
ATOM	642	CE	\mathtt{MET}	Α	84	20.657	33.569	-1.744	1.00 20.78
ATOM	643	N	\mathtt{MET}	Α	85	20.658	29.156	2.338	1.00 19.67
ATOM	644	CA	\mathtt{MET}	Α	85	19.580	28.189	2.583	1.00 22.63
ATOM	645	С	MET	Α	85	19.310	27.972	4.056	1.00 23.29
ATOM	646	0	MET	Α	85	18.158	27.999	4.476	1.00 24.37
ATOM	647	СВ		Α	85	19.869	26.836	1.931	1.00 24.77
ATOM	648	CG	MET	Α	85	19.660	26.830	0.433	1.00 31.83
ATOM	649	SD	MET		85	17.946	27.126	-0.024	1.00 39.36
ATOM	650	CE	MET		85	17.184	25.689	0.707	1.00 27.72
ATOM	651	N	ILE		86	20.366	27.741	4.832	1.00 21.32
ATOM	652	CA	ILE		86	20.224	27.522	6.271	1.00 22.10
ATOM	653	С	ILE		86	19.510	28.701	6.933	1.00 23.88
ATOM	654	0	ILE		86	18.578	28.509	7.709	1.00 24.74
ATOM	655	СВ	ILE		86	21.594	27.300	6.946	1.00 21.35
ATOM	656	CG1	ILE		86	22.232	26.012	6.433	1.00 19.79
ATOM	657	CG2	ILE		86	21.446	27.241	8.462	1.00 20.61
ATOM	658	CD1	ILE		86	23.653	25.809	6.957	1.00 23.69
ATOM	659	И	GLU		87	19.937	29.920	6.612	1.00 23.09
	660	CA			87	19.318	31.125		1.00 25.12
ATOM			GLU				31.214	7.164 6.795	1.00 23.34
ATOM	661	С	GLU		87	17.842			
ATOM	662	0	GLU		87	16.994	31.348	7.673	1.00 26.08
ATOM	663	CB	GLU		87	20.034	32.373	6.650	1.00 25.52
ATOM	664	CG	GLU		87	21.360	32.630	7.320	1.00 28.43
ATOM	665	CD OD1	GLU		87	22.257	33.544	6.504	1.00 27.90
ATOM	666	OE1			87	21.751	34.213	5.565	1.00 22.10
ATOM	667		GLU		87	23.478	33.556	6.794	1.00 27.69
ATOM	668	N	SER		88	17.561	31.149	5.490	1.00 24.56
ATOM	669	CA	SER		88	16.209	31.213	4.930	1.00 24.58
ATOM	670	С	SER		88	15.280	30.186	5.536	1.00 26.05
ATOM	671	0	SER		88	14.187	30.524	5.979	1.00 26.30
ATOM	672	СВ	SER		88	16.250	30.988	3.418	1.00 24.78
ATOM	673	OG	SER		88	16.962	32.027	2.788	1.00 31.47
ATOM	674	N	ASN		89	15.717	28.929	5.539	1.00 24.50
ATOM	675	CA	ASN		89	14.922	27.833	6.084	1.00 26.71
ATOM	676	С	ASN		89	14.546	28.046	7.547	1.00 27.04
MOTA	677	0	ASN		89	13.375	27.962	7.904	1.00 27.03
ATOM	678	СВ	ASN		89	15.663	26.498	5.941	1.00 19.99
ATOM	679	CG	ASN		89	15.729	26.009	4.511	1.00 22.24
ATOM	680		ASN		89	16.512	25.117	4.195	1.00 27.99
ATOM	681	ND2	ASN	Α	89	14.894	26.563	3.646	1.00 20.02

ATOM	682	N	ILE	А	90	15.537	28.336	8.386	1.00	27.67	N
ATOM	683	CA	ILE		90	15.285	28.543	9.812	1.00	27.15	С
ATOM	684	С	ILE	А	90	14.414	29.761	10.103	1.00	25.83	С
ATOM	685	0	ILE	А	90	13.410	29.657	10.809	1.00	28.80	0
ATOM	686	СВ	ILE		90	16.614	28.615	10.632	1.00	24.87	C
ATOM	687	CG1	ILE	А	90	17.270	27.235	10.659	1.00	25.41	С
ATOM	688	CG2	ILE	А	90	16.354	29.091	12.062	1.00	21.02	С
ATOM	689	CD1	ILE	А	90	18.511	27.166	11.490	1.00	26.66	С
ATOM	690	N	ILE	А	91	14.784	30.907	9.546	1.00	25.29	N
ATOM	691	CA	ILE	A	91	14.034	32.131	9.780	1.00	24.17	С
ATOM	692	С	ILE	A	91	12.586	32.060	9.307	1.00	23.51	С
ATOM	693	0	ILE	Α	91	11.672	32.466	10.028	1.00	24.39	0
ATOM	694	CB	ILE	Α	91	14.771	33.348	9.176	1.00	22.16	C
ATOM	695	CG1	ILE	Α	91	16.050	33.611	9.975	1.00	16.91	C
ATOM	696	CG2	ILE	Α	91	13.880	34.580	9.184	1.00	24.10	C
ATOM	697	CD1	ILE	Α	91	16.980	34.617	9.360	1.00	17.53	C
ATOM	698	N	HIS	Α	92	12.363	31.525	8.116	1.00	22.94	N
ATOM	699	CA	HIS	Α	92	11.007	31.434	7.609	1.00	22.11	С
ATOM	700	С	HIS	Α	92	10.198	30.376	8.358	1.00	25.59	C
ATOM	701	0	HIS	А	92	9.039	30.613	8.693	1.00	26.57	0
ATOM	702	СВ	HIS	Α	92	10.998	31.157	6.115	1.00	18.75	С
ATOM	703	CG	HIS	А	92	9.648	31.304	5.487	1.00	23.25	C
ATOM	704	ND1	HIS	Α	92	9.011	30.268	4.839	1.00	24.14	N
ATOM	705	CD2	HIS	Α	92	8.817	32.368	5.401	1.00	19.46	C
ATOM	706	CE1	HIS	А	92	7.848	30.690	4.377	1.00	22.47	С
ATOM	707	NE2	HIS	А	92	7.707	31.959	4.706	1.00	25.02	N
ATOM	708	N	ALA	А	93	10.803	29.218	8.629	1.00	25.00	N
ATOM	709	CA	ALA	А	93	10.107	28.156	9.363	1.00	24.44	С
ATOM	710	С	ALA	А	93	9.740	28.640	10.754	1.00	25.17	С
ATOM	711	0	ALA	А	93	8.635	28.388	11.226	1.00	29.28	0
ATOM	712	СВ	ALA	Α	93	10.964	26.910	9.463	1.00	22.12	C
ATOM	713	N	ALA	А	94	10.665	29.341	11.405	1.00	24.20	N
ATOM	714	CA	ALA	Α	94	10.425	29.872	12.740	1.00	23.89	C
ATOM	715	С	ALA	Α	94	9.170	30.747	12.717	1.00	27.51	C
ATOM	716	0	ALA	Α	94	8.241	30.536	13.490	1.00	30.52	0
ATOM	717	CB	ALA	Α	94	11.630	30.674	13.211	1.00	18.65	C
ATOM	718	N	HIS	Α	95	9.124	31.689	11.782	1.00	27.72	N
ATOM	719	CA	HIS	Α	95	7.979	32.584	11.653	1.00	27.48	C
ATOM	720	С	HIS	Α	95	6.676	31.838	11.377	1.00	24.17	C
ATOM	721	0	HIS	Α	95	5.648	32.163	11.953	1.00	26.36	0
ATOM	722	СВ	HIS	Α	95	8.210	33.614	10.545	1.00	22.08	C
ATOM	723	CG	HIS	Α	95	6.980	34.393	10.203	1.00	25.88	C
ATOM	724	ND1	HIS	Α	95	6.263	34.178	9.044	1.00	27.08	N
ATOM	725	CD2	HIS	Α	95	6.287	35.318	10.909	1.00	20.90	C
ATOM	726	CE1	HIS	Α	95	5.178	34.933	9.055	1.00	23.25	C
ATOM	727	NE2	HIS	А	95	5.170	35.634	10.176	1.00	24.87	N
ATOM	728	N	GLN	Α	96	6.725	30.896	10.438	1.00	24.84	N
ATOM	729	CA	GLN	Α	96	5.578	30.077	10.051	1.00	28.43	C
ATOM	730	С	GLN	Α	96	4.998	29.286	11,222	1.00	28.91	C
ATOM	731	0	GLN	А	96	3.828	28.909	11.195	1.00	30.39	0
ATOM	732	СВ	GLN		96	5.997	29.060	8.999		29.94	C
ATOM	733	CG	GLN	Α	96	6.382	29.636	7.689		40.30	C
ATOM	734	CD	GLN		96	5.190	29.950	6.841		47.03	C
ATOM	735		GLN		96	4.591	31.019	6.973		50.29	0
ATOM	736		GLN		96	4.830	29.020	5.952		48.01	N
ATOM	737	N	ASN		97	5.837	28.986	12.211		28.24	N

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ATOM 738 CA ASN A 97 5.419 28.217 13.376 1.00 27.91 ATOM 740 O ASN A 97 5.374 29.031 14.661 1.00 29.77 ATOM 740 O ASN A 97 5.495 28.500 15.765 1.00 32.39 ATOM 741 CB ASN A 97 6.286 26.972 13.522 1.00 32.46 ATOM 742 CG ASN A 97 6.030 25.970 12.444 1.00 32.45 ATOM 743 ODI ASN A 97 6.030 25.970 12.444 1.00 32.45 ATOM 744 ND2 ASN A 97 6.030 25.970 12.444 1.00 32.45 ATOM 745 N ASP A 98 5.025 25.115 12.616 1.00 31.63 ATOM 745 N ASP A 98 5.025 25.115 12.616 1.00 31.63 ATOM 746 CA ASP A 98 5.024 30.337 14.502 1.00 31.63 ATOM 747 C ASP A 98 5.024 30.337 14.502 1.00 31.63 ATOM 748 O ASP A 98 5.024 31.247 15.620 1.00 31.63 ATOM 749 CB ASP A 98 5.945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.653 31.605 15.686 1.00 53.60 ATOM 751 ODI ASP A 98 2.653 32.946 15.643 1.00 57.85 ATOM 752 ODZ ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 755 C VAL A 99 8.823 32.991 16.894 1.00 27.70 ATOM 755 C VAL A 99 8.3823 32.991 16.894 1.00 27.70 ATOM 755 C VAL A 99 9.815 30.637 16.672 1.00 31.03 ATOM 756 CO VAL A 99 9.093 33.365 15.777 1.00 31.03 ATOM 757 CB VAL A 99 9.093 33.365 15.777 1.00 31.03 ATOM 758 CGI VAL A 99 9.093 33.365 15.777 1.00 27.68 ATOM 759 CGZ VAL A 99 9.093 33.365 15.777 1.00 27.68 ATOM 760 N ASN A 100 8.689 33.694 17.963 1.00 24.55 ATOM 761 CA ASN A 100 8.689 33.694 17.963 1.00 24.55 ATOM 762 CB ASN A 100 10.223 35.674 18.177 1.00 24.60 ATOM 763 C ASN A 100 10.223 35.674 18.177 1.00 24.60 ATOM 766 CD ASN A 100 10.523 35.674 18.177 1.00 24.60 ATOM 767 NDZ ASN A 100 10.223 35.674 18.177 1.00 24.60 ATOM 768 N LYS A 101 12.515 35.079 17.399 1.00 24.55 ATOM 760 CD ASN A 100 10.223 35.674 18.177 1.00 24.60 ATOM 776 CB ASN A 100 10.223 35.674 18.177 1.00 24.60 ATOM 776 CB ASN A 100 10.223 35.674 18.177 1.00 24.02 ATOM 778 CG LYS A 101 13.459 33.226 18.599 1.00 24.55 ATOM 778 CG LYS A 101 13.459 33.226 18.599 1.00 24.55 ATOM 778 CG LYS A 101 13.459 33.226 18.599 1.00 24.02 ATOM 778 CG LYS A 101 13.459 35.237 17.300 1.00 22.												
ATOM 740 O ASN A 97 5.495 28.500 15.765 1.00 32.39 ATOM 741 CB ASN A 97 6.286 26.972 13.522 1.00 23.46 ATOM 742 CG ASN A 97 6.286 26.972 13.522 1.00 23.46 ATOM 743 ODI ASN A 97 6.030 25.970 12.414 1.00 32.45 ATOM 743 ODI ASN A 97 5.035 25.115 12.616 1.00 31.63 ATOM 744 NDZ ASN A 97 5.035 25.115 12.616 1.00 31.63 ATOM 745 N ASP A 98 5.024 30.337 14.502 1.00 31.63 ATOM 746 CA ASP A 98 5.024 30.337 14.502 1.00 31.63 ATOM 747 C ASP A 98 5.024 30.337 14.502 1.00 35.66 ATOM 747 C ASP A 98 5.024 30.337 14.502 1.00 35.66 ATOM 748 O ASP A 98 5.945 31.247 15.620 1.00 35.66 ATOM 748 O ASP A 98 5.945 31.001 16.630 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.330 1.00 39.08 ATOM 749 CB ASP A 98 2.653 31.001 16.330 1.00 39.08 ATOM 750 CG ASP A 98 2.653 31.001 16.330 1.00 39.08 ATOM 751 ODI ASP A 98 2.653 31.001 16.330 1.00 39.08 ATOM 751 ODI ASP A 98 2.653 32.946 15.643 1.00 57.85 ATOM 752 ODZ ASP A 98 1.724 30.993 15.169 1.00 61.27 ATOM 753 N VAL A 99 8.582 31.426 17.095 10.00 28.72 ATOM 755 C VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 755 C VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 757 CB VAL A 99 9.093 33.355 15.777 1.00 31.03 ATOM 757 CB VAL A 99 9.093 33.355 15.777 1.00 31.03 ATOM 758 CGI VAL A 99 9.093 33.355 15.777 1.00 29.82 ATOM 758 CGI VAL A 99 9.093 33.355 15.777 1.00 27.68 ATOM 750 CG VAL A 99 9.093 33.355 16.672 1.00 29.82 ATOM 750 CG VAL A 99 9.093 33.355 16.00 23.05 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM 750 CG VAL A 99 9.093 33.355 10.00 24.60 ATOM												
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ATOM 742 CG ASN A 97 6.030 25.970 12.414 1.00 32.45 ATOM 743 OD1 ASN A 97 6.692 25.982 11.370 1.00 35.48 ATOM 744 ND2 ASN A 97 5.035 25.115 12.616 1.00 31.80 ATOM 745 N ASP A 98 5.0212 30.337 14.502 1.00 31.63 ATOM 746 CA ASP A 98 5.024 31.247 15.620 1.00 35.66 ATOM 747 C ASP A 98 5.045 31.430 16.624 1.00 39.08 ATOM 748 O ASP A 98 5.945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 5.945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.663 31.695 15.686 1.00 53.60 ATOM 751 OD1 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 752 OD2 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 CD 2 ASP A 99 1.724 30.993 15.189 1.00 61.27 ATOM 755 C VAL A 99 8.823 32.919 16.6894 1.00 27.70 ATOM 756 O VAL A 99 9.099 33.365 15.777 1.00 31.03 ATOM 757 CB VAL A 99 9.815 30.637 16.6672 1.00 29.82 ATOM 758 CG VAL A 99 9.815 30.637 16.6672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 750 CG ASN A 100 8.826 35.142 17.796 1.00 24.37 ATOM 750 CG ASN A 100 8.826 35.142 17.870 1.00 24.37 ATOM 750 CG ASN A 100 8.826 35.142 17.870 1.00 24.60 ATOM 750 CG ASN A 100 8.826 35.142 17.870 1.00 24.60 ATOM 760 N ASN A 100 8.826 35.142 17.870 1.00 24.60 ATOM 767 ND2 ASN A 100 7.801 35.571 18.812 1.00 23.88 ATOM 767 ND2 ASN A 100 7.801 35.571 18.812 1.00 23.88 ATOM 768 N LYS A 101 12.359 35.253 19.302 1.00 27.70 ATOM 766 CD ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.06 ATOM 768 N LYS A 101 12.359 35.253 19.302 1.00 27.70 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.06 ATOM 768 N LYS A 101 12.359 35.253 19.302 1.00 27.70 ATOM 767 ND2 ASN A 100 12.233 35.674 18.177 1.00 31.03 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.06 ATOM 768 N LYS A 101 12.717 36.090 23.095 1.00 27.80 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.095 ATOM 768 C LYS A 101 12.717 36.090 23.095 1.00 27.80 ATOM 770 C LYS A 101 12.717 36.090 23.095 1.00 27.80 ATOM 778 C LEU A 102 16.661 36.615 17.736 1.00 22.92 ATOM 778 C LEU A 102 16.661 36.615 1	ATOM	740	0	ASN	Α							
ATOM 743 OD1 ASN A 97	ATOM	741	CB	ASN	Α	97	6.286	2	6.972	13.522	1.00	23.46
ATOM 744 ND2 ASN A 97 5.035 25.115 12.616 1.00 31.80 ATOM 745 N ASP A 98 5.212 30.337 14.502 1.00 31.63 ATOM 746 CA ASP A 98 5.212 30.337 14.502 1.00 33.66 ATOM 747 C ASP A 98 5.212 30.337 14.502 1.00 33.66 ATOM 748 O ASP A 98 5.945 31.437 15.622 1.00 35.36 ATOM 749 CB ASP A 98 5.945 31.437 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 OD1 ASP A 98 2.639 32.946 15.643 1.00 57.85 ATOM 752 OD2 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 755 C VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 756 C VAL A 99 9.039 33.656 15.777 1.00 31.03 ATOM 757 CB VAL A 99 9.039 33.656 15.777 1.00 31.03 ATOM 758 CG1 VAL A 99 9.815 30.637 16.672 1.00 27.70 ATOM 759 CG2 VAL A 99 9.815 30.637 16.672 1.00 27.68 ATOM 750 CB VAL A 99 9.451 29.175 16.486 1.00 30.52 ATOM 750 CA ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 761 CA ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 762 C ASN A 100 10.223 35.674 18.177 1.00 21.460 ATOM 765 CG ASN A 100 10.223 35.674 18.177 1.00 22.88 ATOM 765 CG ASN A 100 10.233 35.674 18.177 1.00 22.88 ATOM 765 CG ASN A 100 10.233 35.679 17.892 1.00 24.55 ATOM 766 CD ASN A 100 10.233 35.670 17.892 1.00 22.91 ATOM 767 CC LYS A 101 11.010 34.871 18.889 1.00 24.55 ATOM 768 CG LYS A 101 12.359 35.253 19.302 1.00 27.07 ATOM 767 CD LYS A 101 12.359 35.253 19.302 1.00 27.07 ATOM 767 CLYS A 101 13.493 33.2694 17.326 1.00 23.95 ATOM 768 CD LYS A 101 12.359 35.253 19.302 1.00 27.07 ATOM 767 CLYS A 101 13.493 33.2694 17.326 1.00 22.91 ATOM 767 CLYS A 101 13.493 33.2694 17.326 1.00 22.93 ATOM 768 CA LYS A 101 12.166 36.262 1.8598 1.00 24.55 ATOM 770 CLYS A 101 13.493 33.265 18.599 1.00 22.93 ATOM 770 CLYS A 101 13.493 33.253 19.302 1.00 27.07 ATOM 771 CLYS A 101 13.493 33.255 18.899 1.00 24.56 ATOM 778 CA LEU A 102 16.693 37.404 23.676 1.00 22.94 ATOM 778 CA LEU A 102 16.693 37.404 23.676 1.00 22.94 ATOM 778 CA LEU A 102 16.693 34.457 18.8597 1.00 22.93 ATOM 780 CA LEU A 102 16.693 34.457 18.	ATOM	742	CG	ASN	Α	97	6.030	2	5.970	12.414	1.00	32.45
ATOM 745 N ASP A 98 5.012 30.337 14.502 1.00 31.63 ATOM 746 CA ASP A 98 5.094 31.247 15.620 1.00 35.66 ATOM 747 C ASP A 98 6.211 31.430 16.624 1.00 36.34 ATOM 748 O ASP A 98 6.211 31.430 16.624 1.00 36.34 ATOM 749 CB ASP A 98 5.945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 OD1 ASP A 98 2.659 32.946 15.643 1.00 57.85 ATOM 752 OD2 ASP A 98 1.774 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 7.451 31.186 16.209 1.00 33.10 ATOM 755 C VAL A 99 8.582 31.426 17.095 1.00 22.72 ATOM 755 C VAL A 99 8.582 31.426 17.095 1.00 22.72 ATOM 756 O VAL A 99 9.099 33.365 15.777 1.00 31.03 ATOM 757 CB VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 758 CG1 VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 750 N ASN A 100 8.689 33.694 17.963 1.00 27.68 ATOM 761 CA ASN A 100 8.689 33.694 17.963 1.00 24.55 ATOM 763 O ASN A 100 8.689 33.694 17.963 1.00 24.55 ATOM 764 CB ASN A 100 10.223 35.674 18.177 1.00 24.60 ATOM 765 C ASN A 100 10.223 35.674 18.177 1.00 24.65 ATOM 766 CB ASN A 100 7.801 35.791 18.812 1.00 24.55 ATOM 766 CB ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 766 CB ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 768 N LYS A 101 13.451 34.457 18.599 1.00 22.91 ATOM 760 N ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND ASN A 100 7.801 35.791 18.819 1.00 22.91 ATOM 777 ND LYS A 101 13.451 34.457 18.599 1.00 22.91 ATOM 778 ND LYS A 101 13.451 34.457 18.599 1.00 22.91 ATOM 778 ND LYS A 101 13.451 34.457 18.599 1.00 22.91 ATOM 778 ND LYS A 101 13.451 34.457 18.599 1.00 22.91 ATOM 778 ND LYS A 101 13.451 34.457 18.599 1.00 22.91 ATOM 778 ND LYS A 101 13.955 38.1595 13.897 1.00 24.55 ATOM 778 ND LYS A 101 13.955 38.1595 22.787 1.	ATOM	743	OD1	ASN	Α	97	6.692	2	5.982	11.370	1.00	35.48
ATOM 746 CA ASP A 98 5.094 31.247 15.620 1.00 35.66 ATOM 747 C ASP A 98 6.211 31.430 16.624 1.00 36.34 ATOM 748 CO ASP A 98 5.945 31.787 17.780 1.00 35.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 OD1 ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 752 OD2 ASP A 98 2.633 31.091 15.693 1.00 37.85 ATOM 753 N VAL A 99 7.451 31.186 16.209 1.00 33.10 ATOM 755 C VAL A 99 8.823 32.946 15.643 1.00 28.72 ATOM 755 C VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 756 C VAL A 99 9.085 15.774 1.00 31.03 ATOM 757 CB VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 758 CG1 VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.815 30.637 16.486 10.00 37.52 ATOM 750 C ASN A 100 8.689 33.694 17.963 1.00 27.68 ATOM 760 N ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 761 CA ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 762 C ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 763 C ASN A 100 8.689 33.694 17.896 1.00 24.37 ATOM 764 CB ASN A 100 10.588 36.793 17.782 1.00 24.55 ATOM 765 CG ASN A 100 7.801 35.742 18.812 1.00 23.88 ATOM 766 C ASN A 100 7.801 35.743 18.812 1.00 23.88 ATOM 767 ND2 ASN A 100 7.801 35.759 1 18.812 1.00 23.88 ATOM 768 N LYS A 101 11.010 34.871 18.889 1.00 23.95 ATOM 767 ND2 ASN A 100 7.841 38.153 19.356 1.00 23.95 ATOM 767 ND2 ASN A 100 12.359 37.230 18.459 1.00 24.02 ATOM 767 ND2 ASN A 101 12.359 35.253 19.302 1.00 24.02 ATOM 767 ND2 ASN A 101 12.359 35.253 19.302 1.00 27.70 ATOM 767 ND2 ASN A 101 12.359 35.253 19.302 1.00 22.91 ATOM 767 ND2 LYS A 101 13.449 33.226 18.599 1.00 22.91 ATOM 767 C LYS A 101 12.359 35.253 19.302 1.00 23.95 ATOM 767 C LYS A 101 13.491 34.457 18.597 1.00 24.02 ATOM 777 C LEU A 102 16.604 34.257 15.871 1.00 22.29 ATOM 778 C LEU A 102 16.604 34.257 15.871 1.00 22.29 ATOM 779 C LEU A 102 16.604 34.257 15.871 1.00 22.29 ATOM 778 C LEU A 102 16.604 34.257 15.871 1.00 22.29 ATOM 778 C LEU A 102 16.604 34.257 15.871 1.00 22.29 ATOM 778 C LEU A 102 16.604 34.257 15.871 1.00 22.29 ATOM 778 C LEU A 102 16.604 34.257 15.871 1	ATOM	744	ND2	ASN	Α	97	5.035	2	5.115	12.616	1.00	31.80
ATOM 747 C ASP A 98 5.211 31.430 16.624 1.00 36.34 ATOM 748 O ASP A 98 5.945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 ODI ASP A 98 2.659 32.946 15.634 1.00 57.85 ATOM 752 OD2 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 754 CA VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 755 C VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 756 O VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 757 CB VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 758 CGI VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.451 29.175 16.486 1.00 30.52 ATOM 760 N ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 761 CA ASN A 100 8.826 35.142 17.870 1.00 24.37 ATOM 762 C ASN A 100 10.253 35.674 18.177 1.00 25.47 ATOM 763 O ASN A 100 10.568 36.793 17.782 1.00 24.55 ATOM 766 ODI ASN A 100 10.568 36.793 17.782 1.00 22.38 ATOM 766 ODI ASN A 100 7.503 37.230 18.459 1.00 22.91 ATOM 766 ODI ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.95 ATOM 768 N LYS A 101 11.010 34.871 18.889 1.00 23.95 ATOM 769 CA LYS A 101 12.359 35.253 19.302 1.00 27.00 ATOM 767 CD LYS A 101 13.449 33.266 18.598 1.00 23.05 ATOM 770 C LYS A 101 12.155 35.076 20.813 1.00 27.30 ATOM 771 O LYS A 101 12.155 35.076 20.813 1.00 27.30 ATOM 773 CG LYS A 101 12.155 35.076 20.813 1.00 27.30 ATOM 774 CD LYS A 101 13.449 33.226 18.598 1.00 23.05 ATOM 775 CE LYS A 101 13.451 34.457 18.597 1.00 22.91 ATOM 777 N LEU A 102 16.661 36.615 17.386 1.00 27.30 ATOM 778 CG LEU A 102 16.749 35.389 17.376 1.00 27.30 ATOM 778 CG LEU A 102 16.749 35.389 17.376 1.00 27.30 ATOM 778 CG LEU A 102 16.641 35.170 18.042 1.00 22.29 ATOM 778 CG LEU A 102 16.641 35.170 18.042 1.00 22.29 ATOM 778 CG LEU A 102 16.641 35.170 18.042 1.00 22.29 ATOM 778 CG LEU A 102 16.641 36.615 17.386 1.00 22.29 ATOM 778 CG LEU A 102 16.641 36.615 17.386 1.00 22.29 ATOM 778 CG LEU A 102 16.641 36.615 17.386 1.00 22.29 ATOM 780 C LEU A 102 16.645 3	ATOM	745	N	ASP	Α	98	5.212	3	0.337	14.502	1.00	31.63
ATOM 747 C ASP A 98 5.211 31.430 16.624 1.00 36.34 ATOM 748 O ASP A 98 5.945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 ODI ASP A 98 2.659 32.946 15.634 1.00 57.85 ATOM 752 OD2 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 754 CA VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 755 C VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 756 O VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 757 CB VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 758 CGI VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.451 29.175 16.486 1.00 30.52 ATOM 760 N ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 761 CA ASN A 100 8.826 35.142 17.870 1.00 24.37 ATOM 762 C ASN A 100 10.253 35.674 18.177 1.00 25.47 ATOM 763 O ASN A 100 10.568 36.793 17.782 1.00 24.55 ATOM 766 ODI ASN A 100 10.568 36.793 17.782 1.00 22.38 ATOM 766 ODI ASN A 100 7.503 37.230 18.459 1.00 22.91 ATOM 766 ODI ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.95 ATOM 768 N LYS A 101 11.010 34.871 18.889 1.00 23.95 ATOM 769 CA LYS A 101 12.359 35.253 19.302 1.00 27.00 ATOM 767 CD LYS A 101 13.449 33.266 18.598 1.00 23.05 ATOM 770 C LYS A 101 12.155 35.076 20.813 1.00 27.30 ATOM 771 O LYS A 101 12.155 35.076 20.813 1.00 27.30 ATOM 773 CG LYS A 101 12.155 35.076 20.813 1.00 27.30 ATOM 774 CD LYS A 101 13.449 33.226 18.598 1.00 23.05 ATOM 775 CE LYS A 101 13.451 34.457 18.597 1.00 22.91 ATOM 777 N LEU A 102 16.661 36.615 17.386 1.00 27.30 ATOM 778 CG LEU A 102 16.749 35.389 17.376 1.00 27.30 ATOM 778 CG LEU A 102 16.749 35.389 17.376 1.00 27.30 ATOM 778 CG LEU A 102 16.641 35.170 18.042 1.00 22.29 ATOM 778 CG LEU A 102 16.641 35.170 18.042 1.00 22.29 ATOM 778 CG LEU A 102 16.641 35.170 18.042 1.00 22.29 ATOM 778 CG LEU A 102 16.641 36.615 17.386 1.00 22.29 ATOM 778 CG LEU A 102 16.641 36.615 17.386 1.00 22.29 ATOM 778 CG LEU A 102 16.641 36.615 17.386 1.00 22.29 ATOM 780 C LEU A 102 16.645 3	ATOM	746	CA	ASP	Α	98	5.094	3	1.247	15.620	1.00	35.66
ATOM 748 O ASP A 98 5,945 31.787 17.780 1.00 39.08 ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 ODI ASP A 98 2.633 31.695 15.686 1.00 57.85 ATOM 752 OD2 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 7.451 31.186 16.209 1.00 33.10 ATOM 754 CA VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 755 C VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 756 O VAL A 99 8.823 32.919 16.894 1.00 27.70 ATOM 757 CB VAL A 99 9.099 33.365 15.777 1.00 31.03 ATOM 757 CB VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 758 CG1 VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.451 29.175 16.486 1.00 30.52 ATOM 760 N ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 761 CA ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 762 C ASN A 100 10.223 35.674 18.177 1.00 25.47 ATOM 765 CG ASN A 100 10.223 35.674 18.177 1.00 25.47 ATOM 765 CG ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 765 CG ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 766 ODI ASN A 100 6.960 37.509 17.399 1.00 22.91 ATOM 767 ND2 ASN A 100 7.861 38.5791 18.812 1.00 23.98 ATOM 768 N LYS A 101 11.010 34.871 18.889 1.00 23.95 ATOM 769 CA LYS A 101 13.451 34.457 18.597 1.00 24.02 ATOM 770 C LYS A 101 13.451 34.457 18.597 1.00 24.02 ATOM 771 O LYS A 101 13.451 34.457 18.597 1.00 24.02 ATOM 772 CB LYS A 101 13.451 34.457 18.597 1.00 24.02 ATOM 773 CG LYS A 101 13.451 34.457 18.597 1.00 24.02 ATOM 774 CD LYS A 101 13.105 37.404 23.676 1.00 27.30 ATOM 775 CE LYS A 101 13.105 37.404 23.676 1.00 27.30 ATOM 776 NZ LEU A 102 16.749 35.389 17.376 1.00 22.94 ATOM 777 N LEU A 102 16.749 35.389 17.376 1.00 22.94 ATOM 778 CA LEU A 102 16.642 33.568 14.903 1.00 22.94 ATOM 778 CA LEU A 102 16.503 34.524 17.326 1.00 22.93 ATOM 780 C LEU A 102 16.042 33.568 14.903 1.00 22.93 ATOM 781 CB LEU A 102 16.042 33.568 14.903 1.00 22.93 ATOM 782 CB LEU A 103 19.813 35.303 18.869 1.00 22.93 ATOM 786 N LEU A 102 16.543 32.575 18.871 1.00 22.93 ATOM 787 C LEU A 103 19.813 35.303 18.869 1.00 22.93 ATOM 780 C LEU A 103 19.813 35.3	ATOM		С	ASP	А	98	6.211	3	1.430	16.624	1.00	36.34
ATOM 749 CB ASP A 98 3.785 31.001 16.350 1.00 46.22 ATOM 750 CG ASP A 98 2.633 31.695 15.686 1.00 53.60 ATOM 751 OD1 ASP A 98 2.659 32.946 15.683 1.00 57.85 ATOM 752 OD2 ASP A 98 1.724 30.993 15.189 1.00 61.27 ATOM 753 N VAL A 99 7.451 31.186 16.209 1.00 33.10 ATOM 754 CA VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 755 C VAL A 99 8.582 31.426 17.095 1.00 28.72 ATOM 756 O VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 757 CB VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 758 CGI VAL A 99 9.815 30.637 16.672 1.00 29.82 ATOM 759 CG2 VAL A 99 9.451 29.175 16.486 1.00 30.52 ATOM 760 N ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 761 CA ASN A 100 8.689 33.694 17.963 1.00 24.37 ATOM 762 C ASN A 100 10.223 35.674 18.177 1.00 24.55 ATOM 764 CB ASN A 100 10.223 35.674 18.177 1.00 24.55 ATOM 765 CG ASN A 100 10.568 36.793 17.782 1.00 24.55 ATOM 766 OD1 ASN A 100 6.960 37.509 17.399 1.00 24.51 ATOM 767 ND2 ASN A 100 7.801 35.791 18.812 1.00 23.88 ATOM 768 N LYS A 101 11.01 34.871 18.889 1.00 23.95 ATOM 769 CA LYS A 101 12.359 35.253 19.302 1.00 23.95 ATOM 770 C LYS A 101 13.451 34.457 18.597 1.00 24.56 ATOM 771 C LYS A 101 13.451 34.457 18.597 1.00 24.56 ATOM 773 CG LYS A 101 12.359 35.253 19.302 1.00 27.07 ATOM 774 CD LYS A 101 13.451 34.457 18.597 1.00 24.56 ATOM 775 CE LYS A 101 13.451 34.457 18.597 1.00 24.56 ATOM 776 CD LYS A 101 13.451 34.457 18.597 1.00 24.56 ATOM 777 C LYS A 101 13.451 34.457 18.597 1.00 24.55 ATOM 778 C LUS A 101 13.451 34.457 18.597 1.00 24.55 ATOM 779 C LUS A 101 13.451 34.457 18.597 1.00 24.55 ATOM 770 C LYS A 101 13.451 34.457 18.597 1.00 24.55 ATOM 770 C LYS A 101 13.451 34.457 18.597 1.00 24.55 ATOM 770 C LYS A 101 13.451 34.457 18.597 1.00 24.92 ATOM 775 CE LYS A 101 13.451 34.457 18.597 1.00 24.92 ATOM 778 CG LEU A 102 16.661 36.615 17.396 1.00 22.94 ATOM 778 CG LEU A 102 16.661 36.615 17.396 1.00 22.94 ATOM 778 CD LEU A 102 16.661 36.615 17.396 1.00 22.99 ATOM 780 C LEU A 102 16.693 32.759 13.887 1.00 22.99 ATOM 781 CB LEU A 102 16.693 32.759 13.887 1.00 22.99 ATOM 784 CD LEU A 103 19.81 35		748	0			98					1.00	39.08
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ATOM 783 CD1 LEU A 102 15.253 32.759 13.887 1.00 21.49 ATOM 784 CD2 LEU A 102 16.937 34.592 14.213 1.00 17.05 ATOM 785 N LEU A 103 17.902 34.743 17.506 1.00 20.92 ATOM 786 CA LEU A 103 19.161 35.464 17.522 1.00 20.49 ATOM 787 C LEU A 103 20.030 34.926 16.385 1.00 22.83 ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	781	СВ	LEU	Α	102	15.084	3	4.257	15.871	1.00	22.13
ATOM 784 CD2 LEU A 102 16.937 34.592 14.213 1.00 17.05 ATOM 785 N LEU A 103 17.902 34.743 17.506 1.00 20.92 ATOM 786 CA LEU A 103 19.161 35.464 17.522 1.00 20.49 ATOM 787 C LEU A 103 20.030 34.926 16.385 1.00 22.83 ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	782	CG	LEU	Α	102	16.042	3	3.568	14.903	1.00	23.29
ATOM 785 N LEU A 103 17.902 34.743 17.506 1.00 20.92 ATOM 786 CA LEU A 103 19.161 35.464 17.522 1.00 20.49 ATOM 787 C LEU A 103 20.030 34.926 16.385 1.00 22.83 ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	783	CD1	LEU	Α	102	15.253	3	2.759	13.887	1.00	21.49
ATOM 786 CA LEU A 103 19.161 35.464 17.522 1.00 20.49 ATOM 787 C LEU A 103 20.030 34.926 16.385 1.00 22.83 ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	784	CD2	LEU	Α	102	16.937	3	4.592	14.213	1.00	17.05
ATOM 787 C LEU A 103 20.030 34.926 16.385 1.00 22.83 ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	785	N	LEU	А	103	17.902	3	4.743	17.506	1.00	20.92
ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	786	CA	LEU	Α	103	19.161	3	5.464	17.522	1.00	20.49
ATOM 788 O LEU A 103 20.317 33.725 16.319 1.00 22.93 ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	787	С	LEU	Α	103	20.030	3	4.926	16.385	1.00	22.83
ATOM 789 CB LEU A 103 19.891 35.303 18.849 1.00 20.99 ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92	ATOM	788	0	LEU	А	103	20.317				1.00	22.93
ATOM 790 CG LEU A 103 21.138 36.189 18.856 1.00 21.16 ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92			СВ	LEU	А	103					1.00	20.99
ATOM 791 CD1 LEU A 103 20.746 37.645 19.108 1.00 21.12 ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92			CG									
ATOM 792 CD2 LEU A 103 22.093 35.710 19.902 1.00 21.92												

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ATOM	794	CA	PHE A	104	21.210	35.472	14.321	1.00 21.41
ATOM	795	С	PHE A	104	22.655	35.897	14.582	1.00 22.87
ATOM	796	0	PHE A	104	22.915	37.024	14.992	1.00 22.66
ATOM	797	СВ	PHE A		20.664	36.171	13.076	1.00 21.21
ATOM	798	CG	PHE A		21.493	35.955	11.847	1.00 22.56
	799		PHE A		21.579	34.694	11.264	1.00 27.99
ATOM								
ATOM	800		PHE A		22.208	37.005	11.281	1.00 23.00
ATOM	801		PHE A		22.367	34.480	10.134	1.00 27.95
ATOM	802		PHE A		23.000	36.803	10.147	1.00 23.13
ATOM	803	CZ	PHE A	104	23.079	35.538	9.576	1.00 22.43
ATOM	804	N	LEU A		23.580	34.967	14.369	1.00 27.02
ATOM	805	CA	LEU A	105	25.005	35.210	14.554	1.00 26.46
ATOM	806	С	LEU A	105	25.691	35.495	13.243	1.00 27.35
ATOM	807	0	LEU A	105	25.806	34.613	12.392	1.00 31.87
ATOM	808	СВ	LEU A	105	25.661	34.001	15.187	1.00 27.56
ATOM	809	CG	LEU A		25.054	33.730	16.552	1.00 35.36
ATOM	810		LEU A		25.632	32.479	17.123	1.00 44.91
ATOM	811	CD2	LEU A		25.350	34.877	17.466	1.00 39.41
ATOM			GLY A		26.127		13.079	
	812	N				36.741		1.00 27.28
ATOM	813	CA	GLY A		26.823	37.131	11.872	1.00 31.26
ATOM	814	С	GLY A		28.321	37.003	12.067	1.00 33.60
ATOM	815	0	GLY A		28.785	36.126	12.786	1.00 30.81
ATOM	816	N	SER A	107	29.070	37.957	11.502	1.00 34.95
ATOM	817	CA	SER A	107	30.528	37.956	11.588	1.00 36.53
ATOM	818	С	SER A	107	31.070	39.355	11.258	1.00 38.53
ATOM	819	0	SER A	107	30.340	40.196	10.723	1.00 40.91
ATOM	820	СВ	SER A	107	31.073	36.923	10.596	1.00 35.42
ATOM	821	OG	SER A		32.476	36.857	10.672	1.00 45.62
ATOM	822	N	SER A		32.333	39.629	11.584	1.00 42.40
ATOM	823	CA	SER A		32.891	40.948	11.285	1.00 44.62
ATOM	824	C	SER A		33.446	41.059	9.853	1.00 46.28
ATOM	825	0	SER A		33.782	42.156	9.403	1.00 47.82
	826							
ATOM		CB	SER A		33.955	41.336	12.302	1.00 42.96
ATOM	827	OG	SER A		35.060	40.462	12.224	1.00 53.15
ATOM	828	N	CYS A		33.570	39.915	9.167	1.00 47.52
ATOM	829	CA	CYS A		34.061	39.849	7.774	1.00 46.68
ATOM	830	С	CYS A		33.098	40.589	6.861	1.00 40.25
ATOM	831	0	CYS A		33.403	40.895	5.717	1.00 45.71
ATOM	832	CB	CYS A	109	34.102	38.394	7.291	1.00 50.89
ATOM	833	SG	CYS A	109	34.994	37.277	8.352	1.00 63.99
ATOM	834	N	ILE A	110	31.909	40.811	7.389	1.00 33.46
ATOM	835	CA	ILE A	110	30.802	41.470	6.735	1.00 30.96
ATOM	836	С	ILE A	110	31.022	42.963	6.455	1.00 24.83
ATOM	837	0	ILE A		30.354	43.539	5.604	1.00 24.03
ATOM	838	СВ	ILE A			41.339	7.650	1.00 37.96
ATOM	839		ILE A		29.074	39.910	7.674	1.00 41.06
	840				28.474		7.200	1.00 47.10
ATOM			ILE A					
ATOM	841		ILE A		27.773		8.439	1.00 39.37
ATOM	842	N	TYR A		31.907		7.199	1.00 21.51
ATOM	843	CA	TYR A		32.148		6.997	1.00 19.87
ATOM	844	С	TYR A		33.024		5.797	1.00 21.44
ATOM	845	0	TYR A		33.822		5.386	1.00 21.93
ATOM	846	CB	TYR A	111	32.721		8.265	1.00 15.73
ATOM	847	CG	TYR A	111	31.682	45.768	9.343	1.00 19.46
ATOM	848	CD1	TYR A			46.664		1.00 22.42
ATOM	849	CD2	TYR A	111	31.748	45.008	10.502	1.00 20.39

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Serial I	No.: 10/	090,8	379		
ATOM	850	CE1	TYR	Α	111
MOTA	851	CE2	TYR	Α	111
MOTA	852	CZ	TYR	Α	111
ATOM	853	ОН	TYR	Α	111
ATOM	854	N	PRO	Α	112
ATOM	855	CA	PRO	Α	112
ATOM	856	С	PRO	Α	112
ATOM	857	0	PRO	Α	112
ATOM	858	СВ	PRO	A	112
ATOM	859	CG	PRO	A	112
ATOM	860	CD	PRO	Α	112
ATOM	861	N	LYS	A	113
ATOM	862	CA	LYS	A	113
ATOM	863	C	LYS	A	113
ATOM	864	0	LYS	A	113
ATOM	865	CB	LYS	A	113
	866		LYS		113
ATOM	867	CG		A	
MOTA		CD	LYS	A	113
ATOM	868	CE	LYS	A	113
ATOM	869	NΖ	LYS	A	113
ATOM	870	N	LEU	A	114
ATOM	871	CA	LEU	Α	114
ATOM	872	С	LEU	Α	114
ATOM	873	0	LEU	А	114
ATOM	874	СВ	LEU	Α	114
ATOM	875	CG	LEU	Α	114
ATOM	876	CD1	LEU	Α	114
MOTA	877	CD2	LEU	Α	114
ATOM	878	N	ALA	А	115
MOTA	879	CA	ALA	Α	115
MOTA	880	С	ALA	Α	115
ATOM	881	0	ALA	Α	115
ATOM	882	CB	ALA	Α	115
ATOM	883	N	LYS	Α	116
ATOM	884	CA	LYS	Α	116
ATOM	885	С	LYS	Α	116
ATOM	886	0	LYS	Α	116
ATOM	887	СВ	LYS	Α	116
ATOM	888	CG	LYS	А	116
ATOM	889	CD	LYS	Α	116
ATOM	890	CE	LYS	Α	116
ATOM	891	NΖ	LYS	A	116
ATOM	892	N	GLN	A	117
ATOM	893	CA	GLN	A	117
ATOM	894	C	GLN	Α	117
ATOM	895	0	GLN	A	117
ATOM	896	СВ	GLN	A	117
ATOM	897	CG	GLN	A	117
ATOM	898	CD	GLN	A	117
					117
ATOM	899	OE1	GLN	A	
ATOM	900	NE2	GLN	A	117
ATOM	901	N	PRO	A	118
ATOM	902	CA	PRO	A	118

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30.775 29.734 28.799 32.876 33.684 35.582 33.3900 31.984 35.939 37.380 38.904 37.988 39.457 40.1654 42.480 37.687 38.276 37.400 38.661 39.726 37.419 37.400 38.661 39.726 39.726 37.419 37.400 38.661 39.726 39.7	45.133 46.1333 46.1333 46.1322 46.1333 46.1323 46.1323 46.1321 47.46.221 47.46.221 47.47.45.153 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 45.471 47.481 48.690 49.775 50.775 50.775 51.577 51.	5.201 4.033 4.336 5.471 3.810 4.327 5.593 3.326 3.456 3.992 4.891 2.095 2.1837 1.069 -0.168 3.443 3.840 4.765 4.665 2.600 1.752 0.494 2.553 5.687 6.641 7.610 7.781 7.411 8.218 9.186 10.878 9.368 10.444 10.852 11.906 11.341	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	22.33 22.33 23.37 24.37 23.68 25.38 29.30 37.37	
35.918 34.669 34.964	55.725 56.521 57.598	10.444 10.852 11.906 11.341 11.173 12.437 13.651 13.599 12.375 11.162 11.192 12.259 10.021 14.752 14.913 14.122	1.00 1.00 1.00 1.00	43.53 55.24 65.20 70.45	

MOTA

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Serial No	.: 10/	090,8	5/9			- 134 -	
ATOM	906	CG	PRO	Α	118	36.353	5
ATOM	907	CD	PRO	Α	118	37.394	5
ATOM	908	N	MET	Α	119	35.034	5
ATOM	909	CA	MET	А	119	33.830	5
ATOM	910	С	MET	Α	119	32.494	5
ATOM	911	0	MET	Α	119	32.155	4
ATOM	912	СВ	MET	Α	119	33.949	4
ATOM	913	CG	MET	Α	119	35.200	4
ATOM	914	SD	MET	Α	119	35.313	4
MOTA	915	CE	MET	Α	119	35.497	4
ATOM	916	N	ALA	Α	120	31.718	5
MOTA	917	CA	ALA	Α	120	30.394	5
ATOM	918	С	ALA	A	120	29.443	-
MOTA	919	0	ALA	A	120	29.767	-
ATOM	920	СВ	ALA	A	120	29.925	-
ATOM	921	N	GLU	A	121	28.279	5
ATOM	922	CA	GLU	A	121	27.299 26.839	4
MOTA	923 924	C 0	GLU	A	121 121	26.426	4
ATOM ATOM	925	CB	GLU GLU	A A	121	26.080	<u> </u>
ATOM	926	СБ	GLU	A	121	26.298	4
ATOM	927	CD	GLU	A	121	26.874	4
ATOM	928	OE1	GLU	Α	121	27.299	4
ATOM	929	OE2	GLU	A	121	26.901	4
ATOM	930	N	SER	Α	122	26.915	5
ATOM	931	CA	SER	Α	122	26.493	5
ATOM	932	С	SER	Α	122	27.500	-
MOTA	933	0	SER	А	122	27.328	-
ATOM	934	СВ	SER	А	122	26.240	-
ATOM	935	OG	SER	Α	122	27.385	-
ATOM	936	N	GLU	A	123	28.554	-
ATOM	937	CA	GLU	A	123	29.585	5
MOTA	938 939	C 0	GLU	A	123 123	29.151 29.756	4
ATOM ATOM	940	CB	GLU GLU	A A	123	30.882	4
ATOM	941	CG	GLU	A	123	32.097	
ATOM	942	CD	GLU	A	123	32.087	-
ATOM	943	OE1	GLU		123	31.872	-
ATOM	944	OE2	GLU	А	123	32.297	-
ATOM	945	N	LEU	А	124	28.077	4
MOTA	946	CA	LEU	А	124	27.536	4
MOTA	947	С	LEU	А	124	27.100	4
ATOM	948	0	LEU	А	124	26.362	4
MOTA	949	СВ	LEU	Α	124	26.331	4
ATOM	950	CG	LEU	A	124	25.832	4
ATOM	951	CD1	LEU	A	124	26.881	4
MOTA	952	CD2	LEU	A	124	24.517	4
ATOM	953 954	N	LEU	A	125	27.548	4
ATOM ATOM	954 955	CA C	LEU	A A	125 125	27.211 27.720	4
ATOM	955 956	0	LEU LEU	A	125	27.720	2
ATOM	957	СВ	LEU	Α	125	25.685	4
ATOM	958	CG	LEU	A	125	25.020	4
ATOM	959	CD1	LEU	A	125	23.526	4
ATOM	960		LEU			25.461	_

52.762 16.835 1.00 27.40 С 53.492 16.024 1.00 26.78 С 50.204 13.689 1.00 27.06 50.044 12.876 1.00 23.35 С 50.028 13.599 1.00 25.01 С
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ATOM ATOM ATOM	962 963 964	CA C O	GLN A	A 126 A 126 A 126	29.291 30.438 31.033	51.343 51.292 52.328	3.038 2.036 1.721	1.00 32.04 1.00 34.53 1.00 41.82
ATOM	965	CB		A 126	29.784	52.068	4.282	1.00 41.32
ATOM	966	CG		A 126	28.689	52.490	5.215	1.00 34.20
ATOM	967	CD		A 126	27.907	53.669	4.694	1.00 48.00
ATOM	968	OE1		A 126	27.727	53.833	3.482	1.00 50.23
ATOM	969	NE2		A 126	27.437	54.510	5.611	1.00 50.25
ATOM	970	N		A 127	30.769	50.100	1.551	1.00 31.66
ATOM	971	CA		A 127	31.858	49.968	0.602	1.00 27.82
ATOM	972	C		A 127	32.084	48.518	0.236	1.00 27.32
ATOM	973	0		A 127	31.483	47.611	0.825	1.00 29.49
ATOM	974	И		A 128	32.974	48.298	-0.725	1.00 30.11
ATOM	975	CA		A 128	33.274	46.959	-1.199	1.00 30.11
ATOM	976	C		A 128	33.841	46.029	-0.125	1.00 28.22
ATOM	977	0		A 128	34.551	46.454	0.788	1.00 28.82
ATOM	978	CB		A 128	34.217	46.988	-2.434	1.00 32.55
ATOM	979	OG1		A 128	35.514	47.442	-2.047	1.00 34.97
ATOM	980	CG2		A 128	33.665	47.924	-3.499	1.00 32.02
ATOM	981	N		A 129	33.493	44.754	-0.253	1.00 26.30
ATOM	982	CA		A 129	33.923	43.709	0.661	1.00 25.84
ATOM	983	C		A 129	35.295	43.145	0.282	1.00 25.86
ATOM	984	0		A 129	35.799	43.378	-0.821	1.00 26.17
ATOM	985	СВ		A 129	32.891	42.573	0.646	1.00 23.20
ATOM	986	CG		A 129	31.472	42.951	1.090	1.00 27.30
ATOM	987	CD1		A 129	30.458	41.912	0.641	1.00 21.96
ATOM	988			A 129	31.444	43.139	2.595	1.00 20.40
ATOM	989	N		A 130	35.909	42.444	1.232	1.00 26.75
ATOM	990	CA		A 130	37.190	41.774	1.038	1.00 25.02
ATOM	991	C		A 130	36.862	40.627	0.051	1.00 25.78
ATOM	992	0		A 130	35.910	39.857	0.274	1.00 24.31
ATOM	993	СВ		A 130	37.659	41.252	2.405	1.00 31.54
MOTA	994	CG		A 130	38.783	40.238	2.396	1.00 44.22
MOTA	995	CD	GLU Z	A 130	40.038	40.742	1.707	1.00 52.18
MOTA	996	OE1		A 130	40.549	41.817	2.113	1.00 55.29
MOTA	997	OE2	GLU Z	A 130	40.510	40.051	0.766	1.00 50.94
MOTA	998	N	PRO A	A 131	37.585	40.548	-1.089	1.00 26.32
MOTA	999	CA	PRO Z	A 131	37.340	39.499	-2.090	1.00 24.15
ATOM	1000	С	PRO A	A 131	37.237	38.091	-1.513	1.00 26.36
ATOM	1001	0	PRO A	A 131	36.285	37.361	-1.810	1.00 27.56
MOTA	1002	CB	PRO 2	A 131	38.533	39.641	-3.017	1.00 22.30
MOTA	1003	CG	PRO 2	A 131	38.791	41.113	-2.984	1.00 23.95
MOTA	1004	CD	PRO A	A 131	38.695	41.421	-1.518	1.00 24.80
ATOM	1005	N	THR A	A 132	38.199	37.726	-0.668	1.00 25.01
ATOM	1006	CA		A 132	38.234	36.409	-0.033	1.00 25.33
ATOM	1007	С	THR A	A 132	36.935	36.026	0.667	1.00 27.61
MOTA	1008	0		A 132	36.471	34.891	0.547	1.00 27.87
MOTA	1009	CB		A 132	39.358	36.327	1.002	1.00 27.29
MOTA	1010	OG1		A 132	40.617	36.466	0.333	1.00 32.89
MOTA	1011	CG2		A 132	39.306	34.985	1.765	1.00 27.23
MOTA	1012	N		A 133	36.334	36.990	1.355	1.00 26.82
MOTA	1013	CA		A 133	35.110	36.746	2.104	1.00 28.00
MOTA	1014	С		A 133	33.809	37.145	1.446	1.00 25.12
MOTA	1015	0		A 133	32.748	36.896	2.008	1.00 20.90
MOTA	1016	СВ		A 133	35.214	37.445	3.450	1.00 31.32
ATOM	1017	CG	ASN A	A 133	36.380	36.946	4.245	1.00 41.55

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ATOM	1018	OD1	ASN A	133	36.488	35.742	4.521	1.00 45.01
ATOM	1019	ND2	ASN A		37.306	37.846	4.566	1.00 41.35
ATOM	1020	N	GLU A		33.883	37.708	0.243	1.00 22.38
ATOM	1021	CA	GLU A	134	32.691	38.180	-0.431	1.00 20.17
ATOM	1022	С	GLU A	134	31.431	37.309	-0.444	1.00 22.01
ATOM	1023	0	GLU A	134	30.385	37.768	-0.019	1.00 24.68
ATOM	1024	СВ	GLU A	134	33.014	38.679	-1.830	1.00 21.19
ATOM	1025	CG	GLU A		31.805	39.295	-2.475	1.00 24.77
ATOM	1026	CD	GLU A		32.133	40.054	-3.723	1.00 23.81
ATOM	1027	OE1	GLU A		32.513	41.236	-3.608	1.00 27.23
ATOM	1028	OE2	GLU A		31.997	39.475	-4.816	1.00 24.18
ATOM	1029	N	PRO A		31.511	36.049	-0.911	1.00 23.71
ATOM	1030	CA	PRO A		30.312	35.190	-0.940	1.00 23.73
ATOM	1031	C	PRO A		29.717	34.918	0.456	1.00 22.29
ATOM	1032	0	PRO A		28.496	34.967	0.648	1.00 22.23
ATOM	1032	CB	PRO A		30.826	33.896	-1.596	1.00 23.02
	1033		PRO A		31.985	34.351		
ATOM ATOM	1034	CG CD			32.666		-2.415	1.00 21.18
			PRO A			35.346	-1.498	1.00 22.81
ATOM	1036	N	TYR A		30.587	34.621	1.415	1.00 20.02
ATOM	1037	CA	TYR A		30.178	34.362	2.795	1.00 21.54
ATOM	1038	С	TYR A		29.524	35.621	3.374	1.00 20.75
ATOM	1039	0	TYR A		28.447	35.562	3.978	1.00 20.25
ATOM	1040	СВ	TYR A		31.414	33.974	3.623	1.00 19.73
ATOM	1041	CG	TYR A		31.181	33.754	5.108	1.00 25.49
ATOM	1042	CD1	TYR A		30.435	32.664	5.574	1.00 28.50
ATOM	1043	CD2	TYR A		31.743	34.616	6.058	1.00 25.98
ATOM	1044	CE1	TYR A		30.253	32.438	6.959	1.00 29.72
ATOM	1045	CE2	TYR A		31.570	34.399	7.431	1.00 29.71
ATOM	1046	CZ	TYR A	136	30.822	33.309	7.878	1.00 29.68
ATOM	1047	OH	TYR A	136	30.623	33.111	9.242	1.00 38.88
ATOM	1048	N	ALA A		30.180	36.756	3.157	1.00 17.79
ATOM	1049	CA	ALA A		29.708	38.049	3.637	1.00 18.54
ATOM	1050	С	ALA A		28.317	38.403	3.099	1.00 19.27
ATOM	1051	0	ALA A	137	27.456	38.865	3.852	1.00 19.80
ATOM	1052	СВ	ALA A	137	30.717	39.144	3.269	1.00 19.72
ATOM	1053	N	ILE A	138	28.091	38.173	1.809	1.00 16.67
ATOM	1054	CA	ILE A	138	26.797	38.472	1.206	1.00 19.47
ATOM	1055	С	ILE A	138	25.700	37.622	1.830	1.00 19.09
ATOM	1056	0	ILE A	138	24.611	38.127	2.092	1.00 17.78
ATOM	1057	CB	ILE A	138	26.812	38.265	-0.326	1.00 20.07
ATOM	1058	CG1	ILE A	138	27.726	39.301	-0.968	1.00 21.59
ATOM	1059	CG2	ILE A	138	25.406	38.382	-0.903	1.00 18.48
ATOM	1060	CD1	ILE A	138	27.254	40.725	-0.756	1.00 26.67
ATOM	1061	N	ALA A	139	25.981	36.338	2.052	1.00 17.26
ATOM	1062	CA	ALA A		25.006	35.437	2.666	1.00 19.22
ATOM	1063	С	ALA A		24.615	35.924	4.073	1.00 20.71
ATOM	1064	0	ALA A		23.429	35.966	4.414	1.00 21.19
ATOM	1065	СВ	ALA A		25.571	34.024	2.744	1.00 17.35
ATOM	1066	N	LYS A		25.622	36.316	4.858	1.00 17.75
ATOM	1067	CA	LYS A		25.437	36.809	6.227	1.00 17.29
ATOM	1068	C	LYS A		24.641	38.121	6.267	1.00 18.38
ATOM	1069	0	LYS A		23.748	38.294	7.100	1.00 17.92
ATOM	1070	СВ	LYS A		26.794	36.993	6.922	1.00 15.11
ATOM	1071	CG	LYS A		27.497	35.709	7.283	1.00 21.07
ATOM	1072	CD	LYS A		26.642	34.914	8.258	1.00 27.61
ATOM	1072	CE	LYS A		27.291	33.619	8.693	1.00 32.72
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ATOM	1074	ΝZ	LYS	Α	140	26.599	33.079	9.900	1.00 33.12
ATOM	1075	N	ILE			24.989	39.058	5.392	1.00 17.59
ATOM	1076	CA	ILE	Α	141	24.266	40.318	5.321	1.00 16.92
ATOM	1077	С	ILE	Α	141	22.804	40.011	4.970	1.00 18.76
ATOM	1078	0	ILE	Α	141	21.899	40.607	5.540	1.00 19.25
ATOM	1079	СВ	ILE			24.892	41.256	4.274	1.00 18.96
ATOM	1080	CG1	ILE			26.238	41.764	4.794	1.00 17.85
ATOM	1081	CG2	ILE			23.961	42.425	3.974	1.00 20.91
ATOM	1082	CD1	ILE			27.142	42.386	3.731	1.00 17.12
ATOM	1083	N	ALA			22.580	39.049	4.070	1.00 15.36
ATOM	1084	CA	ALA			21.231	38.660	3.683	1.00 16.72
ATOM	1085	С	ALA			20.500	38.120	4.898	1.00 17.63
ATOM	1086	0	ALA	Α	142	19.300	38.335	5.040	1.00 18.49
ATOM	1087	СВ	ALA			21.266	37.609	2.599	1.00 17.64
ATOM	1088	N	GLY			21.226	37.404	5.760	1.00 17.58
ATOM	1089	CA	GLY			20.643	36.853	6.978	1.00 15.41
ATOM	1090	С	GLY			20.130	37.959	7.881	1.00 19.82
ATOM	1091	0	GLY			19.034	37.855	8.426	1.00 20.03
ATOM	1092	N	ILE			20.916	39.023	8.037	1.00 19.52
ATOM	1093	CA	ILE			20.517	40.167	8.858	1.00 19.82
ATOM	1094	С	ILE			19.284	40.839	8.264	1.00 17.55
ATOM	1095	0	ILE			18.335	41.137	8.971	1.00 21.37
ATOM	1096	СВ	ILE			21.634	41.231	8.946	1.00 18.97
ATOM	1097	CG1	ILE			22.830	40.680	9.723	1.00 16.65
ATOM	1098	CG2	ILE			21.121	42.516	9.618	1.00 15.56
ATOM	1099	CD1	ILE			24.048	41.579	9.620	1.00 14.80
ATOM	1100	N	LYS			19.295	41.054	6.956	1.00 16.73
ATOM	1101	CA	LYS			18.176	41.708	6.289	1.00 17.76
ATOM	1102	С	LYS			16.894	40.879	6.317	1.00 17.44
ATOM	1103	0	LYS			15.797	41.425	6.264	1.00 18.90
ATOM	1104	СВ	LYS			18.577	42.116	4.875	1.00 17.15
ATOM	1105	CG	LYS			19.737	43.087	4.883	1.00 18.13
ATOM	1106	CD	LYS			19.331	44.405	5.520	1.00 18.09
ATOM	1107	CE	LYS			20.527	45.246	5.919	1.00 16.12
ATOM	1108	ΝZ	LYS			20.054	46.447	6.647	1.00 19.86
ATOM	1109	N	LEU			17.033	39.560	6.370	1.00 17.09
ATOM	1110	CA	LEU			15.879		6.481	1.00 17.60
ATOM	1111	C	LEU			15.248	38.992	7.840	1.00 19.27
ATOM	1112	0	LEU				39.208		1.00 20.71
ATOM	1113	СВ	LEU			16.313	37.221	6.452	1.00 17.03
ATOM	1114	CG	LEU			16.422	36.537	5.094	1.00 19.74
ATOM	1115		LEU			17.113	35.202	5.239	1.00 17.44
ATOM	1116		LEU			15.033	36.345	4.523	1.00 17.98
ATOM	1117	N	CYS			16.083	39.056	8.872	1.00 19.54
ATOM	1118	CA	CYS			15.620	39.333	10.227	1.00 20.46
ATOM	1119	С	CYS			14.860	40.644	10.314	1.00 18.85
ATOM	1120	0	CYS			13.730	40.679	10.796	1.00 22.18
ATOM	1121	СВ	CYS			16.797	39.363	11.209	1.00 18.64
ATOM	1122	SG	CYS			17.473	37.734	11.641	1.00 21.48
ATOM	1123	N	GLU			15.472	41.711	9.806	1.00 20.18
ATOM	1124	CA	GLU			14.876	43.046	9.828	1.00 20.13
ATOM	1125	C	GLU			13.551	43.102	9.068	1.00 19.69
ATOM	1126	0	GLU			12.583	43.704		1.00 20.84
ATOM	1127	CB	GLU				44.066		1.00 20.04
ATOM	1128	CG	GLU			17.175	44.112	10.083	1.00 13.27
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1129 CD GLU A 148 18.175 45.142 9.576 1.00 16.95

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18.089 45.589 8.405 1.00 16.79

Serial No.: 10/090,879									
ATOM	1130	OE1	GLU	Α	148				
ATOM	1131	OE2	GLU	Α	148				
ATOM	1132	N	SER	Α	149				
ATOM	1133	CA	SER	Α	149				
ATOM	1134	С	SER	Α	149				
ATOM	1135	0	SER	Α	149				
ATOM	1136	СВ	SER	Α	149				
ATOM	1137	OG	SER	Α	149				
ATOM	1138	N	TYR	Α	150				

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1147 CE2 TYR A 150 9.445 35.570 7.554 1.00 19.95 1148 CZ TYR A 150 10.355 35.555 6.517 1.00 19.80 1149 OH TYR A 150 10.198 34.685 5.472 1.00 19.84 1150 N ASN A 151 10.878 41.364 11.041 1.00 19.55 1151 CA ASN A 151 10.571 42.233 12.163 1.00 21.48 1152 C ASN A 151 9.618 43.319 11.672 1.00 19.89 1153 O ASN A 151 8.623 43.607 12.317 1.00 21.09 1154 CB ASN A 151 11.834 42.900 12.708 1.00 18.21 11.55 CG ASN A 151 12.724 41.949 13.481 1.00 18.09 1156 OD1 ASN A 151 12.724 41.949 13.481 1.00 18.09 1157 ND2 ASN A 151 12.282 40.714 13.664 1.00 14.19 1158 N ARG A 152 9.951 43.937 10.544 1.00 20.07 1159 CA ARG A 152 9.125 44.994 9.966 1.00 19.82 1160 C ARG A 152 7.745 44.520 9.513 1.00 19.24 MOTA MOTA MOTA MOTA

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19.070 45.508 10.368 1.00 20.51 13.490 42.379 7.954 1.00 19.93 12.297 42.317 7.118 1.00 17.39 11.140 41.598 7.796 1.00 17.18 10.004 42.006 7.628 1.00 19.23 5.767 1.00 17.54

12.632 41.678 13.552 42.497 5.058 1.00 14.85 11.420 40.526 8.542 1.00 19.56 9.268 1.00 19.65

9.937 40.622 10.469 1.00 21.80 8.781 40.588 10.870 1.00 21.40 9.715 1.00 16.51 8.624 1.00 18.75 7.563 1.00 19.80

9.617 36.477 8.608 1.00 19.63 11.436 36.427 6.515 1.00 20.26 9.445 35.570 7.554 1.00 19.95

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ATOM	1186	CE1	TYR	7\	15/	3.789	27 005	7.410	1 00 26	Ω1
		CE1								
ATOM	1187	CE2	TYR			6.163	37.807		1.00 27	
ATOM	1188	CZ	TYR	А	154	4.849		6.550	1.00 32	.07
ATOM	1189	OH	TYR	Α	154	4.597	37.135	5.272	1.00 31	.35
ATOM	1190	N	GLY	Α	155	6.144	41.847	12.638	1.00 19	.87
ATOM	1191	CA	GLY			6.253	42.217	14.034	1.00 22	
ATOM	1192	C	GLY			7.013	41.198	14.859	1.00 24	
ATOM	1193	0	GLY			6.732	41.021		1.00 26	
	1194	И	ARG			7.974	40.521	14.238	1.00 24	
ATOM	1195	CA	ARG	Α	156	8.787	39.532	14.938	1.00 22	.84
ATOM	1196	С	ARG	Α	156	9.876	40.216	15.775	1.00 22	.01
ATOM	1197	0	ARG	Α	156	10.028	41.444	15.756	1.00 19	.01
	1198	СВ				9.421	38.565		1.00 18	
ATOM	1199	CG	ARG			8.434	37.660	13.261	1.00 18	
ATOM	1200	CD	ARG			7.745	36.824	14.286	1.00 19	
ATOM	1201	NE	ARG	Α	156	6.784	35.907	13.695	1.00 21	.63
ATOM	1202	CZ	ARG	Α	156	5.811	35.300	14.374	1.00 23	.57
ATOM	1203	NH1	ARG	Α	156	5.663	35.518	15.671	1.00 25	.52
ATOM	1204					5.006	34.442	13.764	1.00 23	
ATOM	1205	N			157	10.617	39.401	16.520	1.00 22	
ATOM	1206	CA	ASP			11.701	39.877	17.375	1.00 24	
ATOM	1207	С	ASP			12.947	39.036		1.00 24	
ATOM	1208	0	ASP	Α	157	13.409	38.230	17.878	1.00 23	.50
ATOM	1209	CB	ASP	Α	157	11.302	39.722	18.844	1.00 23	.72
ATOM	1210	CG	ASP	Α	157	12.291	40.353	19.789	1.00 26	.71
ATOM	1211	OD1	ASP			13.133	41.161	19.351	1.00 30	
	1212		ASP			12.220	40.044	20.990	1.00 28	
ATOM	1213	N	TYR			13.447	39.211	15.835	1.00 22	
	1214	CA	TYR			14.619	38.498	15.345	1.00 18	
	1215	С	TYR	А	158	15.791	39.451		1.00 19	.09
ATOM	1216	0	TYR	Α	158	15.914	40.368	14.611	1.00 17	.30
ATOM	1217	СВ	TYR	Α	158	14.383	38.045	13.911	1.00 18	.04
ATOM	1218	CG	TYR	Α	158	13.249	37.059	13.756	1.00 18	.53
ATOM	1219	CD1	TYR			12.615	36.505	14.879	1.00 20	
ATOM	1220	CD2			158	12.832	36.644	12.492	1.00 17	
ATOM	1221	CE1			158	11.598	35.558		1.00 21	
ATOM	1222				158	11.819	35.699		1.00 20	
ATOM	1223	CZ	TYR			11.207	35.157	13.473	1.00 24	.50
ATOM	1224	OH	TYR			10.229	34.196	13.330	1.00 23	.67
ATOM	1225	N	ARG	Α	159	16.633	39.235	16.422	1.00 20	.75
ATOM	1226	CA	ARG			17.799	40.067	16.685	1.00 19	
ATOM	1227	С	ARG			19.064	39.450	16.092	1.00 21	
	1228								1.00 18	
ATOM		0	ARG			19.077	38.261	15.760		
ATOM	1229	СВ	ARG			17.955	40.231	18.195	1.00 20	
ATOM	1230	CG	ARG			16.642	40.531	18.862	1.00 19	
MOTA	1231	CD	ARG	Α	159	16.783	40.804	20.325	1.00 23	.76
ATOM	1232	NE	ARG	Α	159	15.486	41.101	20.932	1.00 26	.89
ATOM	1233	CZ	ARG	Α	159	15.308	41.413	22.215	1.00 32	.91
ATOM	1234		ARG			16.345	41.477	23.045	1.00 29	
ATOM	1235		ARG			14.089	41.651	22.674	1.00 26	
ATOM	1236	N	SER			20.120	40.256	15.973	1.00 20	
ATOM	1237	CA	SER			21.383	39.790	15.401	1.00 22	
ATOM	1238	С	SER	А	160	22.623	40.445	16.035	1.00 23	.61
ATOM	1239	0	SER	А	160	22.613	41.631	16.391	1.00 27	.28
ATOM	1240	СВ	SER	Α	160	21.369	40.010	13.878	1.00 18	.64
ATOM	1241	OG	SER			21.189	41.377	13.584	1.00 21	
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MOTA	1242	N	VAL	Α	161	23.673	39.644	16.220	1.00 21.16
MOTA	1243	CA	VAL	Α	161	24.925	40.128	16.789	1.00 22.84
MOTA	1244	С	VAL	Α	161	26.071	39.869	15.815	1.00 24.11
MOTA	1245	0	VAL	Α	161	26.115	38.836	15.152	1.00 23.19
ATOM	1246	СВ	VAL	Α	161	25.218	39.495	18.164	1.00 20.00
MOTA	1247	CG1	VAL	Α	161	24.165	39.917	19.171	1.00 15.73
MOTA	1248	CG2	VAL	Α	161	25.269	38.000	18.044	1.00 17.25
MOTA	1249	N	MET	Α	162	26.998	40.815	15.756	1.00 26.02
MOTA	1250	CA	MET	А	162	28.155	40.749	14.857	1.00 25.91
ATOM	1251	С	MET	Α	162	29.428	40.599	15.646	1.00 24.51
ATOM	1252	0	MET	Α	162	29.988	41.583	16.123	1.00 23.78
ATOM	1253	СВ	MET	Α	162	28.218	42.035	14.050	1.00 30.64
ATOM	1254	CG	MET	А	162	28.850	41.863	12.698	1.00 39.34
ATOM	1255	SD	MET			27.639	41.548	11.415	1.00 53.27
ATOM	1256	CE	MET			26.536	40.289	12.127	1.00 36.94
ATOM	1257	N	PRO			29.918	39.370	15.786	1.00 24.89
ATOM	1258	CA	PRO			31.159	39.159	16.549	1.00 26.54
ATOM	1259	С	PRO			32.448	39.526	15.831	1.00 25.28
ATOM	1260	0	PRO			32.517	39.474	14.610	1.00 25.95
ATOM	1261	СВ	PRO			31.133	37.655	16.847	1.00 23.73
ATOM	1262	CG	PRO			29.897	37.115	16.115	1.00 31.41
ATOM	1263	CD	PRO			29.499	38.138	15.125	1.00 26.18
ATOM	1264	N	THR			33.470	39.893	16.603	1.00 22.10
ATOM	1265	CA	THR			34.788	40.189	16.060	1.00 23.78
ATOM	1266	C	THR			35.478	38.805	15.910	1.00 23.23
ATOM	1267	0	THR			34.780	37.788	15.887	1.00 22.37
ATOM	1268	СВ	THR			35.578	41.123	17.031	1.00 22.50
ATOM	1269	OG1	THR			36.853	41.454	16.471	1.00 23.40
ATOM	1270	CG2	THR			35.758	40.481	18.399	1.00 14.86
ATOM	1271	N	ASN			36.808	38.748	15.809	1.00 21.33
ATOM	1272	CA	ASN			37.514	37.454	15.695	1.00 20.80
ATOM	1273	С	ASN			37.332	36.670	16.989	1.00 21.60
ATOM	1274	0	ASN			37.571	37.190	18.073	1.00 19.56
ATOM	1275	СВ	ASN			39.022	37.634	15.450	1.00 23.42
ATOM	1276	CG	ASN			39.325	38.488	14.237	1.00 28.81
ATOM	1277	OD1	ASN			38.899	38.184	13.123	1.00 32.12
ATOM	1278	ND2	ASN			40.054	39.584	14.455	1.00 30.18
ATOM	1279	N			166	36.916	35.417	16.861	1.00 22.74
ATOM	1280	CA	LEU			36.678	34.563	18.008	1.00 21.57
ATOM	1281	С	LEU			37.736	33.491	18.137	1.00 24.04
ATOM	1282	0	LEU			38.424	33.167	17.181	1.00 27.78
MOTA	1283	СВ	LEU			35.313	33.892	17.894	1.00 21.43
ATOM	1284	CG	LEU			34.065	34.774	17.812	1.00 22.20
ATOM	1285		LEU	А	166	32.835	33.883	17.825	1.00 21.95
ATOM	1286	CD2	LEU			34.013	35.741	18.967	1.00 16.86
ATOM	1287	N	TYR			37.871	32.964	19.346	1.00 24.38
ATOM	1288	CA	TYR			38.819	31.901	19.634	1.00 23.56
ATOM	1289	С	TYR			38.337	31.215	20.916	1.00 25.61
ATOM	1290	0	TYR			37.493	31.750	21.635	1.00 23.71
ATOM	1291	СВ	TYR			40.247	32.470	19.796	1.00 23.51
ATOM	1292	CG	TYR			40.499	33.242	21.083	1.00 24.80
ATOM	1293	CD1	TYR			40.177	34.599	21.189	1.00 22.13
ATOM	1294	CD2	TYR			41.044	32.603	22.207	1.00 22.06
ATOM	1295	CE1	TYR			40.391	35.292	22.379	1.00 23.72
ATOM	1296	CE2	TYR			41.255	33.284	23.388	1.00 20.75
ATOM	1297	CZ	TYR			40.928	34.619	23.467	1.00 23.11

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ATOM	1298	ОН	TYR	Α	167
ATOM	1299	N	GLY	Α	168
ATOM	1300	CA	GLY	Α	168
ATOM	1301	С	GLY	Α	168
ATOM	1302	0	GLY	Α	168
ATOM	1303	N	PRO	Α	169
ATOM	1304	CA	PRO	A	169
ATOM	1305	С	PRO	Α	169
ATOM	1306	0	PRO	Α	169
ATOM	1307	СВ	PRO	Α	169
ATOM	1308	CG	PRO	A	169
ATOM	1309	CD	PRO	Α	169
ATOM	1310	N	HIS	Α	170
ATOM	1311	CA	HIS	Α	170
ATOM	1312	С	HIS	Α	170
ATOM	1313	0	HIS	Α	170
ATOM	1314	СВ	HIS	Α	170
ATOM	1315	CG	HIS	Α	170
ATOM	1316	ND1	HIS	Α	170
ATOM	1317	CD2	HIS	Α	170
ATOM	1318	CE1	HIS	Α	170
ATOM	1319	NE2	HIS	Α	170
ATOM	1320	N	ASP	Α	171
ATOM	1321	CA	ASP	Α	171
ATOM	1322	С	ASP	Α	171
ATOM	1323	0	ASP	Α	171
ATOM	1324	СВ	ASP	Α	171
ATOM	1325	CG	ASP	Α	171
ATOM	1326	OD1	ASP	Α	171
ATOM	1327	OD2	ASP	Α	171
ATOM	1328	N	ASN	Α	172
ATOM	1329	CA	ASN	Α	172
ATOM	1330	С	ASN	Α	172
ATOM	1331	0	ASN	Α	172
ATOM	1332	СВ	ASN	Α	172
ATOM	1333	CG	ASN	Α	172
ATOM	1334	OD1	ASN	Α	172
ATOM	1335	ND2	ASN	Α	172
ATOM	1336	N	PHE	Α	173
ATOM	1337	CA	PHE	Α	173
ATOM	1338	С	PHE	Α	173
ATOM	1339	0	PHE	Α	173
ATOM	1340	CB	PHE	Α	173
ATOM	1341	CG	PHE	Α	173
ATOM	1342	CD1	PHE	Α	173
ATOM	1343	CD2	PHE	Α	173
ATOM	1344	CE1	PHE	Α	173
ATOM	1345	CE2	PHE	Α	173
ATOM	1346	CZ	PHE	А	173
ATOM	1347	N	HIS	А	174
ATOM	1348	CA	HIS	А	174
ATOM	1349	С	HIS	Α	174
ATOM	1350	0	HIS	Α	174
ATOM	1351	CB	HIS	А	174
ATOM	1352	N	PRO	А	175
ATOM	1353	CA	PRO	Α	175

38.469 38.358 38.862 37.763	29.302 27.819 27.366 27.020	24.641 21.196 22.395 22.096 21.067 22.999 22.723	1.00 1.00 1.00 1.00	24.41 25.69 22.25 27.31	
35.784 37.093 36.435 37.382 36.989 36.221 36.491 35.829 34.730	26.043 25.028 26.200 27.322 24.162 23.684 24.432 24.220 23.625	21.545 21.245 24.038 24.693 24.390 20.882 19.736 18.465 17.456 20.053	1.00 1.00 1.00 1.00 1.00 1.00 1.00	32.73 29.76 29.13 24.91 29.85 33.39 33.49 36.59	
34.350 34.273 34.188 34.138 37.498 37.914 38.604 38.851	21.579 25.291 26.051 25.025 23.881	20.912 22.474 22.067 23.029 18.514 17.353 16.447 16.852	1.00 1.00 1.00 1.00 1.00 1.00 1.00	38.83 39.24 41.36 39.69 33.58 32.22 35.48 36.59	
39.625 38.895 39.562 41.079 41.734 39.173	29.295 25.422 24.531 24.608 25.509 24.906	17.779 16.753 15.598 17.111 15.219 14.288 14.477 13.956 12.858 11.814 12.130 10.552	1.00 1.00 1.00 1.00 1.00	28.62 36.84 38.89 41.26 41.31 42.20	
41.635 43.073 43.851 45.059 43.399 43.084	24.353 23.661 23.647 22.871 22.682 23.110 24.071 25.025 24.043 25.936	15.226 15.463 14.419 14.568 16.852	1.00 1.00 1.00 1.00	44.88 49.71 57.76 59.18	
41.530 42.458 43.162 43.805 44.825 44.725 42.761 45.864	24.950 25.898 22.422 21.677 22.603 23.834 21.181 22.022 22.798	19.572 19.945 13.368 12.291 11.620 11.717 11.280 10.993	1.00 1.00 1.00 1.00 1.00 1.00 1.00	34.93 34.54 65.47 69.58 74.04 73.03 65.86 78.70	

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PRO A 175 46.389 23.590 9.108 1.00 78.90 47.009 24.564 8.677 1.00 80.21 47.905 21.719 9.890 1.00 81.10 47.021 20.508 9.682 1.00 82.81 45.062 32.290 17.138 1.00 24.42 45.260 30.765 17.170 1.00 24.83

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1410 CD PRO A 182 42.958 30.270 16.135 1.00 25.45 46.094 28.847 14.780 1.00 24.74 47.248 28.519 13.940 1.00 26.58 48.550 28.747 14.713 1.00 27.08 49.527 26.723 18.849 1.00 23.38 1427 O LEU A 185 50.441 26.231 19.493 1.00 25.13 1428 CB LEU A 185 47.524 27.792 19.890 1.00 22.97 1429 CG LEU A 185 47.061 28.783 20.962 1.00 25.88 1430 CD1 LEU A 185 45.633 28.474 21.350 1.00 27.24 1431 CD2 LEU A 185 47.953 28.716 22.188 1.00 22.77 1432 N ARG A 186 49.073 26.203 17.714 1.00 24.14 1433 CA ARG A 186 49.569 24.948 17.169 1.00 25.34 1434 C ARG A 186 51.048 25.034 16.810 1.00 24.95 1435 O ARG A 186 51.833 24.187 17.212 1.00 26.26 1436 CB ARG A 186 49.073 23.233 15.318 1.00 42.48 1438 CD ARG A 186 49.073 23.233 15.318 1.00 42.48 1438 CD ARG A 186 48.759 24.583 15.925 1.00 31.52 1437 CG ARG A 186 48.392 22.118 16.098 1.00 57.91 1439 NE ARG A 186 48.619 20.790 15.519 1.00 68.83 1440 CZ ARG A 186 48.619 20.790 15.519 1.00 68.83 1440 CZ ARG A 186 46.595 20.682 14.401 1.00 79.10 1442 NH2 ARG A 186 46.595 20.682 14.401 1.00 79.10 1442 NH2 ARG A 186 48.065 18.934 14.273 1.00 79.84 1443 N ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.29 1446 O ARG A 187 52.829 26.214 15.644 1.00 25.29 1446 O ARG A 187 52.829 26.214 15.644 1.00 25.29 1446 O ARG A 187 52.829 26.214 15.644 1.00 25.25 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.25 15 1448 CG ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.65 1445 C ARG A 187 52.829 26.214 15.644 1.00 25.29 1446 O ARG A 187 52.840 28.391 12.462 1.00 36.07 1451 CZ ARG A 187 52.480 28.391 12.462 1.00 36.07 1451 CZ ARG A 187 52.480 28.391 12.462 1.00 36.07 1451 CZ ARG A 187 52.480 28.391 12.462 1.00 36.07 1451 CZ ARG A 187 53.870 30.621 11.435 1.00 31.47 1453 NH2 ARG A 187 53.870 30.621 11.435 1.00 31.47 1453 NH2 ARG A 187 53.870 30.621 11.435 1.00 31.47 1453 NH2 ARG A 187 53.870 30.621 11.435 1.00 31.47 1455 CA PHE A 188 54.282 27.421 18.945 1.00 25.71 50.441 26.231 19.493 1.00 25.13 54.282 27.421 18.945 1.00 25.19 1456 C PHE A 188 54.337 26.174 19.808 1.00 25.71 1457 O PHE A 188 55.354 25.892 20.431 1.00 25.63 1458 CB PHE A 188 53.821 28.637 19.753 1.00 23.20 1459 CG PHE A 188 54.286 29.939 19.177 1.00 25.71 1460 CD1 PHE A 188 55.647 30.235 19.110 1.00 27.25 1461 CD2 PHE A 188 53.376 30.851 18.660 1.00 25.83 1462 CE1 PHE A 188 56.098 31.430 18.529 1.00 32.00 1463 CE2 PHE A 188 53.810 32.044 18.077 1.00 29.35 1464 CZ PHE A 188 55.177 32.336 18.010 1.00 28.41 1465 N HIS A 189 53.241 25.424 19.835 1.00 25.11 54.337 26.174 19.808 1.00 25.71

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1466 CA HIS A 189 53.189 24.190 20.599 1.00 27.94 1467 C HIS A 189 54.224 23.213 20.047 1.00 28.28 1468 O HIS A 189 54.995 22.606 20.797 1.00 27.38 1469 CB HIS A 189 51.801 23.547 20.510 1.00 28.07 1470 CG HIS A 189 51.801 23.547 20.510 1.00 28.07 1470 CG HIS A 189 51.704 22.170 21.092 1.00 30.32 1471 ND1 HIS A 189 51.774 22.170 21.092 1.00 30.32 1473 CE1 HIS A 189 51.777 20.949 20.504 1.00 28.20 1473 CE1 HIS A 189 51.777 20.949 20.504 1.00 28.62 1473 CE1 HIS A 189 51.777 20.949 20.504 1.00 28.62 1473 CE1 HIS A 189 51.776 20.015 21.511 1.00 27.91 1475 N GLU A 190 54.208 23.046 18.732 1.00 26.08 1476 CA GLU A 190 55.132 22.148 18.081 1.00 30.47 1477 C GLU A 190 56.569 22.632 18.068 1.00 30.23 1478 O GLU A 190 57.490 21.827 18.211 1.00 33.16 1479 CB GLU A 190 57.490 21.827 18.211 1.00 33.16 1479 CB GLU A 190 53.722 20.621 16.736 1.00 51.77 1481 CD GLU A 190 52.225 20.701 16.736 1.00 51.77 1481 CD GLU A 190 52.225 20.701 15.74 1.00 61.78 1482 CDE1 GLU A 190 52.225 20.702 14.511 1.00 65.36 1483 OBZ GLU A 190 52.225 20.702 14.511 1.00 61.78 1488 CB ALA A 191 56.763 23.942 17.928 1.00 28.59 1484 N ALA A 191 56.763 23.942 17.928 1.00 28.59 1484 N ALA A 191 58.106 24.517 17.939 1.00 26.34 1486 C ALA A 191 58.106 24.517 17.939 1.00 26.34 1486 C ALA A 191 58.714 24.292 19.328 1.00 28.59 1488 CB ALA A 191 58.056 26.008 17.610 1.00 19.04 1489 N THR A 192 58.316 24.145 21.736 1.00 25.41 1490 CA THR A 192 58.316 24.145 21.736 1.00 25.41 1490 CA THR A 192 58.316 24.145 21.736 1.00 25.41 1490 CA THR A 192 58.306 22.602 1.002 1.003 33.72 1499 O ALA A 193 59.304 19.802 20.755 1.00 35.48 1499 O ALA A 193 59.304 19.802 20.255 1.00 35.48 1499 O ALA A 193 59.304 19.802 20.755 1.00 43.03 1499 O ALA A 193 59.304 19.802 20.755 1.00 43.03 1499 O ALA A 193 59.304 19.802 20.755 1.00 43.03 1500 CB ALA A 193 59.304 19.802 20.755 1.00 43.03 1500 CB ALA A 193 59.304 19.802 20.755 1.00 43.03 1500 CB ALA A 193 59.904 19.802 20.755 1.00 43.03 1500 CB ALA A 193 59.904 19.802 20.755 1.00 43.03 1500 CB ALA A 193 59.904 19.802 20.755 1.00 43.03 1500 1466 CA HIS A 189 53.189 24.190 20.599 1.00 27.94 54.224 23.213 20.047 1.00 28.28 62.817 22.667 20.445 1.00 44.65 1511 CA ASN A 195
1512 C ASN A 195
1513 O ASN A 195
1514 CB ASN A 195
1515 CG ASN A 195
1516 OD1 ASN A 195
1517 ND2 ASN A 195
1518 N ALA A 196
1519 CA ALA A 196
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1521 O ALA A 196
1520 C ALA A 196
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ATOM	1522	СВ	ALA	Α	196	61.
ATOM	1523	N	PRO	Α	197	64.
ATOM	1524	CA	PRO	A	197	65.
ATOM	1525	С	PRO	A	197	64.
ATOM	1526	0	PRO	A	197	64.
ATOM	1527	СВ	PRO	Α	197	66.
ATOM	1528	CG	PRO	Α	197	66.
ATOM	1529	CD	PRO	Α	197	65.
ATOM	1530	N	ASP	A	198	63.
ATOM	1531	CA	ASP	A	198	62.
ATOM	1532	C	ASP	A	198	61.
ATOM	1533	0	ASP	A	198	61.
ATOM	1534	СВ	ASP	А	198	63.
ATOM	1535	CG	ASP	А	198	64.
ATOM	1536	OD1	ASP	Α	198	63.
ATOM	1537	OD2	ASP	Α	198	64.
ATOM	1538	N	VAL	Α	199	60.
ATOM	1539	CA	VAL	Α	199	59.
ATOM	1540	С	VAL	Α	199	59.
ATOM	1541	0	VAL	А	199	59.
ATOM	1542	СВ	VAL	Α	199	58.
ATOM	1543	CG1	VAL	А	199	56.
ATOM	1544	CG2	VAL	Α	199	58.
ATOM	1545	N	VAL	Α	200	59.
ATOM	1546	CA	VAL	Α	200	59.
ATOM	1547	С	VAL	Α	200	57.
ATOM	1548	0	VAL	Α	200	56.
ATOM	1549	СВ	VAL	А	200	59.
ATOM	1550	CG1	VAL	А	200	59.
ATOM	1551	CG2	VAL	Α	200	61.
ATOM	1552	N	VAL	А	201	57.
ATOM	1553	CA	VAL	А	201	55.
ATOM	1554	С	VAL	Α	201	55.
ATOM	1555	0	VAL	Α	201	56.
MOTA	1556	СВ	VAL	Α	201	55.
MOTA	1557	CG1	VAL	Α	201	53.
ATOM	1558	CG2	VAL	А	201	55.
ATOM	1559	Ν	TRP	А	202	55.
ATOM	1560	CA	TRP	А	202	55.
ATOM	1561	С	TRP	A	202	54.
ATOM	1562	0	TRP	A	202	53.
ATOM	1563	CB	TRP	A	202	54.
ATOM	1564	CG	TRP	A	202	54.
MOTA	1565	CD1	TRP	A	202	53.
ATOM	1566	CD2	TRP	A	202	55.
ATOM	1567	NE1	TRP	A	202	54.
ATOM	1568	CE2	TRP	A	202	55.
ATOM	1569	CE3	TRP	A	202	57.
MOTA	1570 1571	CZ2	TRP	A	202 202	56. 58.
ATOM ATOM	1571	CZ3 CH2	TRP	A A	202	57.
ATOM	1572	N	TRP	A	202	55.
ATOM	1574	CA	GLY GLY	A	203	54.
ATOM	1575	CA	GLY	A	203	55.
ATOM	1576	0	GLY	A	203	56.
ATOM	1577	N	SER	A	203	55.
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25.020	17.040		
29.055	17.410		
30.023	18.169	1.00 22.20	
30.152	16.022		
29.786	15.293	1.00 27.16	
28.670	14.802	1.00 24.09	
31.224	15.241	1.00 33.13	
30.754	13.858	1.00 40.57	
29 598	13 444	1 00 48 38	
		1 00 49 60	
31.819	13.782	1.00 23.64	
32.921	14.328	1.00 21.04	
30 <i>4</i> 57	15.597	1.00 27.41	
30.544	14.846	1.00 24.95	
29.145	16.362	1.00 26.46	
31 659	12 463	1 00 22 12	
33.878	9.410		
32.392	10.656		
34.285	11.400	1.00 20.42	
34.702	11.095	1.00 18.07	
35.741	9.974	1.00 19.18	
34 320			
25 500			
33.399	0.901		
35.969	6.717	1.00 20.52	
34.663	6.062	1.00 21.23	
33.799	5.461	1.00 19.92	
	5.850		
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32.766	4.872	1.00 24.00	
32.766 32.934	4.872 5.093	1.00 21.42	
32.766 32.934 34.524	4.872 5.093 6.216	1.00 21.42 1.00 26.36	
32.766 32.934 34.524 32.144	4.872 5.093 6.216 4.689	1.00 21.42 1.00 26.36 1.00 21.09	
32.766 32.934 34.524 32.144 33.736	4.872 5.093 6.216 4.689 5.809	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65	
32.766 32.934 34.524 32.144 33.736 32.560	4.872 5.093 6.216 4.689 5.809 5.053	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65 1.00 24.15	
32.766 32.934 34.524 32.144 33.736 32.560 38.943	4.872 5.093 6.216 4.689 5.809 5.053 7.640	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65 1.00 24.15 1.00 19.02	
32.766 32.934 34.524 32.144 33.736 32.560	4.872 5.093 6.216 4.689 5.809 5.053	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65 1.00 24.15	
32.766 32.934 34.524 32.144 33.736 32.560 38.943	4.872 5.093 6.216 4.689 5.809 5.053 7.640	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65 1.00 24.15 1.00 19.02	
32.766 32.934 34.524 32.144 33.736 32.560 38.943 40.298 40.999	4.872 5.093 6.216 4.689 5.809 5.053 7.640 7.946 8.962	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65 1.00 24.15 1.00 19.02 1.00 17.60 1.00 21.54	
32.766 32.934 34.524 32.144 33.736 32.560 38.943 40.298	4.872 5.093 6.216 4.689 5.809 5.053 7.640 7.946	1.00 21.42 1.00 26.36 1.00 21.09 1.00 28.65 1.00 24.15 1.00 19.02 1.00 17.60	
	26.544 27.813 29.055 30.023 27.836 27.016 25.874 29.024 30.152 29.786 28.670 31.224 30.754 29.598 31.572 30.563 31.819 32.921 30.457 30.544 29.145 31.659 32.802 33.044 32.125 32.637 33.878 32.392 34.285 34.702 35.741 36.618 35.322 35.743 34.320 35.599 34.663 37.895 34.663 37.99	26.544 17.240 27.813 17.669 29.055 17.410 30.023 18.169 27.836 16.896 27.016 15.661 25.874 16.218 29.024 16.346 30.152 16.022 29.786 15.293 28.670 14.802 31.224 15.241 30.754 13.858 29.598 13.444 31.572 13.157 30.727 15.285 30.563 14.611 31.819 13.782 32.921 14.328 30.457 15.597 30.544 14.846 29.145 16.362 31.659 12.463 32.802 11.581 33.044 11.226 32.125 10.865 32.637 10.295 33.878 9.410 32.392 10.656 34.285 11.400 34.702 11.095 35.741 9.974 3	26.544 17.240 1.00 31.27 27.813 17.669 1.00 28.32 29.055 17.410 1.00 26.38 30.023 18.169 1.00 22.20 27.836 16.896 1.00 28.56 27.016 15.661 1.00 33.14 25.874 16.218 1.00 29.19 29.024 16.346 1.00 26.81 30.152 16.022 1.00 28.91 29.786 15.293 1.00 27.16 28.670 14.802 1.00 24.09 31.224 15.241 1.00 33.13 30.754 13.858 1.00 40.57 29.598 13.444 1.00 48.38 31.572 13.157 1.00 49.60 30.727 15.285 1.00 27.51 30.563 14.611 1.00 24.78 31.819 13.782 1.00 27.41 30.544 14.846 1.00 24.95 29.145 16.362

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ATOM	1634	CG	PHE	А	211
ATOM	1635	CD1	PHE	Α	211
ATOM	1636	CD2	PHE	Α	211
ATOM	1637	CE1	PHE	Α	211
ATOM	1638	CE2	PHE	A	211
ATOM	1639	CZ	PHE	A	211
ATOM	1640	N	LEU	A	212
ATOM	1641	CA	LEU	A	212
ATOM	1642	CA	LEU	A	212
ATOM	1643	0	LEU	A	212
ATOM	1644	CB	LEU	A	212
ATOM	1645	СБ			212
ATOM	1646	CD1	LEU	A	212
ATOM	1647	CD1	LEU	A	212
	1648		LEU	A	212
ATOM	1648	N	HIS	A	
ATOM		CA	HIS	A	213
ATOM	1650	С	HIS	A	213
ATOM	1651	0	HIS	A	213
ATOM	1652	СВ	HIS	A	213
ATOM	1653	CG	HIS	A	213
ATOM	1654	ND1	HIS	A	213
ATOM	1655	CD2	HIS	Α	213
ATOM	1656	CE1	HIS	Α	213
ATOM	1657	NE2	HIS	Α	213
ATOM	1658	N	VAL		214
ATOM	1659	CA	VAL	А	214
ATOM	1660	С	VAL	А	214
ATOM	1661	0	VAL	А	214
ATOM	1662	СВ	VAL	А	214
ATOM	1663	CG1	VAL	Α	214
ATOM	1664	CG2	VAL	Α	214
ATOM	1665	N	ASP	Α	215
MOTA	1666	CA	ASP	Α	215
MOTA	1667	С	ASP	Α	215
ATOM	1668	0	ASP	Α	215
ATOM	1669	CB	ASP	Α	215
ATOM	1670	CG	ASP	Α	215
ATOM	1671	OD1	ASP	А	215
ATOM	1672	OD2	ASP	А	215
ATOM	1673	N	ASP	Α	216
ATOM	1674	CA	ASP	Α	216
ATOM	1675	С	ASP	Α	216
MOTA	1676	0	ASP	Α	216
MOTA	1677	СВ	ASP	Α	216
ATOM	1678	CG	ASP	Α	216
MOTA	1679	OD1	ASP	Α	216
ATOM	1680	OD2	ASP	Α	216
ATOM	1681	N	MET	Α	217
ATOM	1682	CA	MET	Α	217
ATOM	1683	С	MET	Α	217
ATOM	1684	0	MET	Α	217
ATOM	1685	СВ	MET	Α	217
ATOM	1686	CG	MET	Α	217
ATOM	1687	SD	MET	Α	217
ATOM	1688	CE	MET	Α	217
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	37.482 39.166 37.543 39.234 38.418 38.065 37.855 36.359 35.572 38.407 38.324 39.348	17.761 16.641 20.812 21.877 22.141 21.206 21.435 22.387 23.496 21.637 23.403	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	26.09 22.98 27.04 24.82 22.53 22.95 21.66 21.98 20.99 20.54 23.29	
37.454 36.347 38.529 36.734	32.824 32.032 32.018 30.799		1.00 1.00 1.00	24.08 24.24	
38.053	30.764 32.892 32.388 32.338	26.011 22.948 22.586 23.734	1.00 1.00 1.00	28.21 25.29 24.32	
31.857 34.188 34.477 32.963	32.507 31.041 29.893 30.806	23.500 21.840 22.805 20.989	1.00 1.00 1.00		
33.523 32.617 32.063 30.919		26.122		25.73 25.82	
33.303 33.530 32.775 34.477	31.551 30.054 29.349 29.568	27.369 27.286 26.590 27.916		25.39 26.16 31.88	
32.876 32.418 31.373 30.357	36.150 36.801	25.220 25.442	1.00 1.00 1.00	27.00 28.85	
33.583 34.129 33.442 35.255 31.641	36.876 37.391 37.299 37.923 35.617	26.150 27.478 28.520 27.467 24.034	1.00 1.00 1.00 1.00	28.45 30.92	
30.746 29.363 28.358 31.318	35.741 35.200 35.888 34.950	22.894 23.261 23.082 21.707	1.00 1.00 1.00 1.00	27.95 26.79 27.99	
30.358 29.895 28.361 29.324	34.744 36.349 35.953 33.972	20.539 19.937 19.139 23.774		48.23 54.42	

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AIOM	1690	CA	ALA	А	218	28.076	33.320	24.16/	1.00	23.88
ATOM	1691	С	ALA	Α	218	27.319	34.116	25.244	1.00	26.90
ATOM	1692	0	ALA			26.091	34.244	25.197		27.66
ATOM	1693	СВ	ALA			28.362	31.908	24.646		18.18
ATOM	1694	N			219	28.064	34.682	26.188		25.13
ATOM	1695	CA			219	27.476	35.477	27.255		25.66
ATOM	1696	С			219	26.787	36.703	26.667		27.39
MOTA	1697	0	ALA	Α	219	25.647	36.994	27.009	1.00	28.52
MOTA	1698	СВ	ALA	Α	219	28.544	35.895	28.261	1.00	21.47
ATOM	1699	N	ALA	Α	220	27.472	37.406	25.768	1.00	28.63
ATOM	1700	CA	ALA	Α	220	26.920	38.604	25.131	1.00	26.33
ATOM	1701	С	ALA			25.697	38.275	24.290		26.06
ATOM	1702	0	ALA			24.741	39.043	24.235		29.42
ATOM	1703	СВ	ALA			27.968	39.276	24.268		22.04
						25.737				
ATOM	1704	N	SER				37.124	23.636		24.40
ATOM	1705	CA	SER			24.643	36.687	22.787		27.11
ATOM	1706	С	SER			23.360	36.480	23.590		27.16
MOTA	1707	0	SER			22.289	36.977	23.225	1.00	25.37
MOTA	1708	СВ	SER	Α	221	25.046	35.393	22.082	1.00	22.88
ATOM	1709	OG	SER	Α	221	26.154	35.636	21.242	1.00	27.21
ATOM	1710	N	ILE	Α	222	23.489	35.704	24.664	1.00	28.09
ATOM	1711	CA	ILE			22.400	35.395	25.575		26.58
ATOM	1712	С	ILE			21.890	36.685	26.222		29.03
ATOM	1713	0	ILE			20.688	36.860	26.402		33.57
		СВ	ILE							27.12
ATOM	1714					22.876	34.390	26.633		
ATOM	1715	CG1	ILE			23.248	33.077	25.935		26.47
ATOM	1716	CG2	ILE			21.796	34.154	27.684		27.52
MOTA	1717	CD1	ILE			23.912	32.071	26.811		28.54
MOTA	1718	N	HIS			22.799	37.610	26.512		27.80
MOTA	1719	CA	HIS	Α	223	22.428	38.886	27.103	1.00	26.97
ATOM	1720	С	HIS	Α	223	21.536	39.646	26.114	1.00	30.27
MOTA	1721	0	HIS	Α	223	20.440	40.088	26.471	1.00	29.90
ATOM	1722	СВ	HIS			23.686	39.695	27.418		22.45
ATOM	1723	CG	HIS			23.411	41.076	27.929		25.76
ATOM	1724		HIS			23.262	41.358	29.268		26.58
ATOM	1725		HIS			23.293	42.259	27.279		23.25
ATOM	1726		HIS			23.068	42.656	29.421		27.80
ATOM			HIS			23.082	43.226	28.230		24.79
ATOM	1728	N	VAL			22.004	39.779	24.871		30.37
ATOM	1729	CA	VAL			21.248	40.475	23.834		25.52
MOTA	1730	С	VAL			19.917	39.777	23.557		25.58
ATOM	1731	0	VAL	Α	224	18.888	40.436	23.438	1.00	26.16
MOTA	1732	CB	VAL	Α	224	22.071	40.631	22.535	1.00	28.54
ATOM	1733	CG1	VAL	Α	224	21.192	41.185	21.395	1.00	25.39
ATOM	1734	CG2	VAL	Α	224	23.257	41.573	22.786	1.00	23.36
ATOM	1735	N	MET			19.929	38.448	23.503		23.29
ATOM	1736	CA	MET			18.708	37.683	23.276		25.45
ATOM	1737	C	MET			17.645	37.960	24.357		30.79
	1737		MET			16.484		24.049		31.70
ATOM		O CB					38.221			
ATOM	1739	CB	MET			19.025	36.188	23.256		22.65
ATOM	1740	CG	MET			17.808	35.290	23.177		22.09
ATOM	1741	SD	MET			16.850	35.534	21.670		27.79
ATOM	1742	CE	MET			16.726	33.888	21.053		19.59
ATOM	1743	N	GLU	А	226	18.073	37.969	25.617	1.00	31.00
ATOM	1744	CA	GLU	А	226	17.175	38.160	26.750	1.00	31.44
ATOM	1745	С	GLU	А	226	16.810	39.568	27.196	1.00	31.94

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ATOM	1746	0	GLU A	226	15.976	39.731	28.076	1.00 35.03	
ATOM	1747	СВ	GLU A		17.662	37.321	27.922	1.00 28.92	
ATOM	1748	CG	GLU A		17.559	35.848	27.602	1.00 32.28	
ATOM	1749	CD	GLU A		18.113	34.955	28.676	1.00 36.44	
ATOM	1750	OE1			18.791	35.463	29.594	1.00 37.16	
ATOM	1751	OE2			17.871	33.735	28.588	1.00 36.59	
ATOM	1752	N	LEU A		17.398	40.582	26.574	1.00 32.98	
ATOM	1753	CA	LEU A		17.089	41.979	26.898	1.00 32.85	
ATOM	1754	C	LEU A		15.600	42.252	26.631	1.00 35.35	
ATOM	1755	0	LEU A		14.951	41.543	25.852	1.00 30.98	
ATOM	1756	СВ	LEU A		17.896	42.898	25.983	1.00 32.82	
ATOM	1757	CG	LEU A		18.810	43.955	26.570	1.00 36.81	
ATOM	1758	CD1			19.758	43.308	27.546	1.00 42.67	
ATOM	1759		LEU A		19.571	44.602	25.439	1.00 38.94	
ATOM	1760	N	ALA A		15.068	43.300	27.250	1.00 37.77	
ATOM	1761	CA	ALA A		13.665	43.661	27.044	1.00 38.56	
ATOM	1762	C	ALA A			44.220	25.639	1.00 35.13	
ATOM	1763	0	ALA A			45.031	25.210	1.00 34.44	
ATOM	1764	СВ	ALA A			44.710	28.071	1.00 36.59	
ATOM	1765	N	HIS A			43.800	24.943	1.00 33.46	
ATOM	1766	CA	HIS A			44.256	23.586	1.00 35.30	
ATOM	1767	C	HIS A		12.268	45.773	23.473	1.00 34.25	
ATOM	1768	0	HIS A		12.897	46.292	22.554	1.00 35.79	
ATOM	1769	СВ	HIS A		10.872	43.732	23.086	1.00 37.43	
ATOM	1770	CG	HIS A		10.688	43.865	21.606	1.00 41.98	
ATOM	1771		HIS A		9.507	44.289	21.036	1.00 44.45	
ATOM	1772		HIS A			43.630	20.579	1.00 40.17	
ATOM	1773		HIS A			44.307	19.721	1.00 43.12	
ATOM	1774		HIS A			43.911	19.418	1.00 39.43	
ATOM	1775	N	GLU A		11.679	46.476	24.447	1.00 34.52	
ATOM	1776	CA	GLU A		11.656	47.944	24.436	1.00 36.01	
ATOM	1777	С	GLU A		13.040	48.532	24.551	1.00 32.41	
ATOM	1778	0	GLU A		13.309	49.587	23.975	1.00 33.66	
ATOM	1779	СВ	GLU A		10.810	48.522	25.572	1.00 43.87	
ATOM	1780	CG	GLU A		9.507	47.805	25.834	1.00 59.23	
ATOM	1781	CD	GLU A		9.475	47.156	27.211	1.00 67.02	
ATOM	1782	OE1			10.290			1.00 67.32	
ATOM	1783		GLU A		8.623	46.269	27.421	1.00 72.93	
ATOM	1784	N	VAL A		13.896	47.879	25.334	1.00 30.41	
ATOM	1785	CA	VAL A		15.270	48.343	25.530	1.00 32.05	
ATOM	1786	С	VAL A		16.087	48.154	24.258	1.00 31.22	
ATOM	1787	0	VAL A		16.897	49.012	23.891	1.00 30.73	
ATOM	1788	СВ	VAL A		15.957	47.600	26.701	1.00 34.26	
ATOM	1789		VAL A		17.415	48.047	26.836	1.00 34.42	
ATOM	1790		VAL A		15.201	47.872	27.999	1.00 33.56	
ATOM	1791	N	TRP A		15.860	47.025	23.592	1.00 28.92	
ATOM	1792	CA	TRP A		16.545	46.706	22.347	1.00 28.47	
ATOM	1793	С	TRP A		16.110	47.667	21.241	1.00 28.71	
ATOM	1794	0	TRP A		16.947	48.245	20.556	1.00 28.50	
ATOM	1795	СВ	TRP A		16.243	45.269	21.945	1.00 26.62	
ATOM	1796	CG	TRP A		16.898	44.855	20.666	1.00 32.32	
ATOM	1797	CD1			18.198	44.477	20.499	1.00 31.35	
ATOM	1798		TRP A		16.278	44.740	19.377	1.00 33.29	
ATOM	1799		TRP A		18.427	44.128	19.191	1.00 31.77	
ATOM	1800		TRP A		17.267	44.279	18.480	1.00 30.84	
ATOM	1801		TRP A		14.985	44.976	18.894	1.00 30.74	

1 28.076 1.00 35.03 0 27.922 1.00 28.92 С 8 27.602 1.00 32.28 5 28.676 1.00 36.44 3 29.594 1.00 37.16 5 28.588 1.00 36.59 2 26.574 1.00 32.98 9 26.898 1.00 32.85 0 0 N С 26.631 1.00 35.35 С 3 25.852 1.00 30.98 С С С С N С С 0 С 24.943 1.00 35.10
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879 25.334 1.00 30.41
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ATOM	1802	CZ2	TRP	Α	232	17.004	44.049	17.132	1.00	26.46	
ATOM	1803	CZ3	TRP	А	232	14.726	44.746	17.551	1.00	30.51	
ATOM	1804	CH2	TRP	Α	232	15.732	44.289	16.687	1.00	29.05	
ATOM	1805	N	LEU	Α	233	14.799	47.869	21.105	1.00	27.99	
ATOM	1806	CA	LEU	Α	233	14.261	48.765	20.084	1.00	28.27	
ATOM	1807	С	LEU	Α	233	14.795	50.165	20.263	1.00	28.89	
ATOM	1808	0			233	15.031	50.881	19.294	1.00	30.72	
ATOM	1809	СВ	LEU			12.739	48.810	20.165	1.00	28.76	
ATOM	1810	CG	LEU			11.984	47.546	19.771	1.00	29.00	
ATOM	1811	CD1				10.530	47.694	20.179		31.26	
ATOM	1812	CD2	LEU			12.120	47.310	18.264	1.00		
ATOM	1813	N	GLU			15.000	50.534	21.520		31.87	
ATOM	1814	CA	GLU			15.488	51.851	21.892	1.00		
ATOM	1815	С	GLU			16.942	52.068	21.517		33.59	
ATOM	1816	0	GLU			17.353	53.199	21.263	1.00	33.78	
ATOM	1817	CB	GLU			15.313	52.041	23.393		41.45	
ATOM	1818	CG	GLU			15.650	53.417	23.913	1.00	51.75	
ATOM	1819	CD OE1	GLU			15.827	53.407	25.422	1.00		
ATOM	1820	OE1				14.937	52.869 53.912	26.127	1.00		
ATOM ATOM	1821 1822	OE2	GLU			16.868		25.904		67.45 34.46	
ATOM	1823	N CA	ASN ASN			17.722 19.140	50.990 51.097	21.486 21.143	1.00		
ATOM	1824	CA	ASN			19.519	50.670	19.736	1.00		
ATOM	1825	0	ASN			20.703	50.588	19.419		35.60	
ATOM	1826	СВ	ASN			19.998	50.346	22.155	1.00	38.20	
ATOM	1827	CG	ASN			20.061	51.050	23.488	1.00	40.47	
ATOM	1828		ASN			19.230	50.804	24.361		41.70	
ATOM	1829		ASN			21.031	51.950	23.646		38.15	
ATOM	1830	N	THR			18.515	50.375	18.911	1.00		
ATOM	1831	CA	THR			18.730	49.974	17.530	1.00		
ATOM	1832	С	THR			17.725	50.686	16.633	1.00		
ATOM	1833	0	THR			16.907	51.483	17.097	1.00		
ATOM	1834	СВ	THR	А	236	18.505	48.471	17.342	1.00	26.06	
ATOM	1835	OG1	THR	Α	236	17.168	48.153	17.718	1.00	23.36	
ATOM	1836	CG2	THR	Α	236	19.466	47.652	18.190	1.00	23.68	
ATOM	1837	N	GLN	А	237	17.823	50.407	15.337	1.00	31.04	
ATOM	1838	CA	GLN			16.926	50.946	14.319	1.00	29.74	
ATOM	1839	С	GLN	А	237	16.418	49.747	13.538		30.35	
ATOM	1840	0	GLN			17.120	48.751	13.400		31.24	
ATOM	1841	CB	GLN			17.663	51.881	13.372		30.60	
ATOM	1842	CG	GLN			17.872	53.258	13.921		39.45	
ATOM	1843	CD	GLN			19.275	53.730	13.684		47.84	
ATOM	1844		GLN			20.210	53.269	14.346		53.55	
ATOM	1845		GLN			19.449	54.627	12.716		51.18	
ATOM	1846	N	PRO			15.192	49.828	13.007		31.11	
ATOM	1847	CA	PRO			14.588	48.735	12.241		28.16	
ATOM	1848	С	PRO			15.425	48.238	11.068 10.759		26.63	
ATOM	1849	O CB	PRO PRO			15.412	47.046			28.16 30.93	
ATOM ATOM	1850 1851	CB CG	PRO			13.268 12.920	49.344 50.271	11.772 12.896		30.93	
ATOM ATOM	1852	CD	PRO			14.250	50.271	13.130	1.00		
ATOM	1853	N	MET			16.143	49.146	10.420		21.38	
ATOM	1854	CA	MET			16.970	48.769	9.286		22.28	
ATOM	1855	C	MET			18.477	48.877	9.557		21.75	
ATOM	1856	0	MET			19.291	48.895	8.640		22.74	
ATOM	1857	СВ	MET			16.541	49.554	8.043		21.13	
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1858 CG MET A 239 15.111 49.224 7.604 1.00 22.76 6.188 1.00 26.50 14.537 50.176 15.085 49.154 4.844 1.00 25.86 18.834 48.942 10.834 1.00 19.60 1862 CA LEU A 240 20.230 48.977 11.274 1.00 19.53
1863 C LEU A 240 20.133 48.406 12.688 1.00 20.93
1864 O LEU A 240 20.394 49.087 13.677 1.00 20.84
1865 CB LEU A 240 20.776 50.402 11.292 1.00 18.18
1866 CG LEU A 240 22.305 50.452 11.328 1.00 20.72
1867 CD1 LEU A 240 22.870 49.885 10.042 1.00 22.42
1868 CD2 LEU A 240 22.781 51.876 11.512 1.00 25.43
1869 N SER A 241 19.733 47.139 12.751 1.00 19.97
1870 CA SER A 241 19.482 46.445 14.010 1.00 22.45
1871 C SER A 241 20.555 45.547 14.632 1.00 24.03
1872 O SER A 241 18.220 45.613 13.841 1.00 21.78
1873 CB SER A 241 18.220 45.613 13.841 1.00 21.78 20.230 48.977 11.274 1.00 19.53 1874 OG SER A 241
18.449 44.574
12.905
1.00 20.80
1875 N HIS A 242
21.610 45.230 13.886
1.00 21.94
1876 CA HIS A 242
22.649 44.354
18.4412
1.00 20.43
1877 C HIS A 242
23.469 45.046
15.496
1.00 22.84
1878 O HIS A 242
23.560 46.274
15.538
1.00 21.58
1879 CB HIS A 242
23.560 46.274
15.538
1.00 21.58
1887 CHIS A 242
23.549 43.829
13.275
1.00 18.89
1880 CG HIS A 242
25.571 45.149
12.534
1.00 23.65
1881 ND1 HIS A 242
25.571 45.149
12.534
1.00 23.65
1882 CD2 HIS A 242
25.571 45.149
12.534
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1883 CEH HIS A 242
25.872
46.164
11.744
1.00 20.15
1884 NE2 HIS A 242
24.760 46.589
11.171
1.00 22.79
1885 N ILE A 243
24.044 44.249
16.388
1.00 24.70
1886 CA ILE A 243
24.044 44.249
16.388
1.00 24.70
1887 C ILE A 243
26.266
44.156
17.428
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1888 O ILE A 243
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1890 CG1 ILE A 243
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45.247
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1891 CG2 ILE A 243
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1891 CG2 ILE A 243
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1894 CA ASN A 244
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1896 O ASN A 244
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1898 C ASN A 244
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1896 O ASN A 244
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1899 OD1 ASN A 244
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1900 ND2 ASN A 244
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1900 ASN A 244
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1900 ND2 ASN A 244
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ATOM	1914	С	THR A	247	36.510	45.454	23.122	1.00 29.69
ATOM	1915	0	THR A	. 247	36.592	46.197	24.101	1.00 30.93
ATOM	1916	СВ	THR A	247	37.632	43.316	23.630	1.00 26.94
ATOM	1917	OG1	THR A		38.538	43.559	22.551	1.00 30.49
ATOM	1918	CG2	THR A		37.504	41.821	23.854	1.00 24.99
ATOM	1919	N	GLY A		36.648	45.886	21.871	1.00 30.62
ATOM	1920	CA	GLY A		36.909	47.286	21.582	1.00 30.96
ATOM	1921	C	GLY A		38.374	47.626	21.791	1.00 30.30
ATOM	1922	0	GLY A		38.792	48.774	21.659	1.00 33.15
ATOM	1923	N	VAL A		39.149	46.606	22.146	1.00 36.38
ATOM	1924	CA	VAL A		40.582	46.733	22.400	1.00 35.32
ATOM	1925	С	VAL A		41.340	46.000	21.305	1.00 33.54
ATOM	1926	0	VAL A		40.995	44.878	20.943	1.00 31.55
ATOM	1927	СВ	VAL A		40.955	46.095	23.771	1.00 33.49
ATOM	1928		VAL A		42.453	46.009	23.945	1.00 37.03
ATOM	1929	CG2	VAL A	. 249	40.357	46.902	24.895	1.00 34.03
ATOM	1930	N	ASP A	. 250	42.340	46.657	20.740	1.00 33.09
ATOM	1931	CA	ASP A	. 250	43.141	46.018	19.716	1.00 34.83
ATOM	1932	С	ASP A	. 250	44.589	45.855	20.191	1.00 35.91
ATOM	1933	0	ASP A		45.036	46.520	21.137	1.00 35.51
ATOM	1934	СВ	ASP A		43.058	46.774	18.374	1.00 37.89
ATOM	1935	CG	ASP A		43.441	48.252	18.483	1.00 40.50
ATOM	1936		ASP A		43.832	48.728	19.574	1.00 48.18
ATOM	1937		ASP A		43.351	48.946	17.451	1.00 39.51
ATOM	1938	N	CYS A		45.279	44.887	19.604	1.00 32.14
ATOM	1939	CA	CYS A		46.663	44.646	19.937	1.00 33.38
ATOM	1940	C	CYS A		47.359	44.192	18.660	1.00 29.54
ATOM	1941	0	CYS A		46.714	43.673	17.743	1.00 28.68
	1942	CB	CYS A		46.786			1.00 28.00
ATOM	1942		CYS A		46.610	43.620	21.084	1.00 39.91
ATOM		SG				41.850	20.646	
ATOM	1944	N	THR A		48.663	44.436	18.579	1.00 26.23
ATOM	1945	CA	THR A		49.445	44.067	17.408	1.00 20.12
ATOM	1946	С	THR A		49.635	42.562	17.291	1.00 18.00
ATOM	1947	0	THR A		49.530	41.824	18.274	1.00 19.25
ATOM	1948	СВ	THR A		50.828	44.741	17.442	1.00 16.17
ATOM	1949	OG1	THR A		51.564	44.266	18.570	1.00 19.37
ATOM	1950	CG2	THR A		50.680	46.242	17.586	1.00 14.17
ATOM	1951	N	ILE A		49.890	42.102	16.074	1.00 18.88
ATOM	1952	CA	ILE A		50.136	40.681	15.851	1.00 19.06
ATOM	1953	С	ILE A		51.410	40.305	16.638	1.00 21.49
ATOM	1954	0	ILE A		51.523	39.203	17.182	1.00 24.79
ATOM	1955	СВ	ILE A		50.334	40.364	14.341	1.00 17.20
MOTA	1956	CG1	ILE A	. 253	49.093	40.770	13.544	1.00 18.22
MOTA	1957	CG2	ILE A	. 253	50.630	38.885	14.141	1.00 16.36
ATOM	1958	CD1	ILE A	. 253	47.819	40.175	14.070	1.00 21.43
ATOM	1959	N	ARG A	254	52.358	41.232	16.701	1.00 18.63
ATOM	1960	CA	ARG A	. 254	53.595	41.014	17.436	1.00 20.59
ATOM	1961	С	ARG A	. 254	53.270	40.696	18.902	1.00 18.08
ATOM	1962	0	ARG A	. 254	53.756	39.713	19.460	1.00 16.09
ATOM	1963	СВ	ARG A		54.483	42.259	17.292	1.00 18.77
ATOM	1964	CG	ARG A		55.407	42.576	18.445	1.00 24.60
ATOM	1965	CD	ARG A		56.791	42.026	18.283	1.00 26.66
ATOM	1966	NE	ARG A		57.452	42.471	17.062	1.00 26.45
ATOM	1967	CZ	ARG A		58.610	41.972	16.629	1.00 26.86
ATOM	1968		ARG A		59.249	41.044	17.331	1.00 22.35
ATOM	1969		ARG A		59.050	42.277	15.419	1.00 26.14
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ATOM	1970	N	GLU A	255	52.408	41.502	19.511	1.00 18.24
ATOM	1971	CA	GLU A		52.031	41.274	20.903	1.00 17.68
ATOM	1972	C	GLU A		51.314	39.946	21.076	1.00 17.00
ATOM	1973	0	GLU A		51.495	39.261	22.086	1.00 19.72
ATOM	1974	СВ	GLU A		51.137	42.391	21.415	1.00 18.51
ATOM	1975	CG	GLU A		50.609	42.107	22.805	1.00 29.56
ATOM	1976	CD	GLU A	255	50.037	43.325	23.499	1.00 35.94
MOTA	1977	OE1	GLU A	255	49.923	44.403	22.876	1.00 40.53
ATOM	1978	OE2	GLU A	255	49.707	43.201	24.691	1.00 41.94
ATOM	1979	N	LEU A	256	50.478	39.605	20.095	1.00 19.97
ATOM	1980	CA	LEU A	256	49.724	38.353	20.103	1.00 18.75
ATOM	1981	С	LEU A		50.657	37.147	20.057	1.00 18.16
ATOM	1982	0	LEU A		50.549	36.238	20.890	1.00 21.01
ATOM	1983	СВ	LEU A		48.761	38.293	18.911	1.00 17.32
	1984	CG	LEU A		48.004	36.970	18.773	1.00 17.32
ATOM								
ATOM	1985	CD1	LEU A		47.028	36.809	19.933	1.00 18.99
ATOM	1986	CD2	LEU A		47.280	36.906	17.445	1.00 19.35
ATOM	1987	Ν	ALA A		51.580	37.145	19.096	1.00 16.61
ATOM	1988	CA	ALA A		52.532	36.040	18.952	1.00 18.93
ATOM	1989	С	ALA A		53.423	35.862	20.192	1.00 17.74
ATOM	1990	0	ALA A	257	53.717	34.747	20.618	1.00 20.77
ATOM	1991	CB	ALA A	257	53.392	36.264	17.714	1.00 16.15
ATOM	1992	N	GLN A	258	53.854	36.986	20.750	1.00 18.00
ATOM	1993	CA	GLN A	258	54.708	37.023	21.920	1.00 17.43
ATOM	1994	С	GLN A		53.964	36.482	23.145	1.00 18.74
ATOM	1995	0	GLN A		54.546	35.790	23.979	1.00 16.90
ATOM	1996	СВ	GLN A		55.141	38.470	22.137	1.00 22.50
ATOM	1997	CG	GLN A		56.618	38.703	22.293	1.00 22.30
ATOM	1998	CD	GLN A		57.483	38.060	21.215	1.00 28.88
ATOM	1999	OE1	GLN A		57.619	38.570	20.089	1.00 26.65
ATOM	2000	NE2	GLN A		58.145	36.975	21.591	1.00 26.16
ATOM	2001	N	THR A		52.674	36.788	23.247	1.00 18.84
ATOM	2002	CA	THR A	259	51.866	36.310	24.371	1.00 19.96
MOTA	2003	С	THR A	259	51.625	34.797	24.249	1.00 21.48
ATOM	2004	0	THR A	259	51.663	34.071	25.238	1.00 24.00
ATOM	2005	СВ	THR A	259	50.526	37.071	24.460	1.00 18.93
ATOM	2006	OG1	THR A	259	50.788	38.471	24.620	1.00 21.13
ATOM	2007	CG2	THR A		49.702	36.591	25.643	1.00 14.80
ATOM	2008	N	ILE A		51.391			1.00 20.24
ATOM	2009	CA	ILE A		51.183	32.910	22.788	1.00 19.18
ATOM	2010	C	ILE A		52.468	32.158		1.00 18.14
ATOM	2010	0	ILE A		52.420	31.129	23.779	1.00 21.69
ATOM	2012	CB	ILE A		50.763	32.645	21.330	1.00 19.66
ATOM	2013		ILE A		49.334	33.128	21.125	1.00 21.57
ATOM	2014		ILE A		50.871	31.166	20.989	1.00 18.63
ATOM	2015	CD1	ILE A		48.835	32.980	19.697	1.00 22.20
ATOM	2016	И	ALA A	261	53.612	32.697	22.708	1.00 15.71
ATOM	2017	CA	ALA A	261	54.899	32.077	22.994	1.00 15.38
ATOM	2018	С	ALA A	261	55.047	31.871	24.497	1.00 18.87
ATOM	2019	0	ALA A	261	55.446	30.801	24.952	1.00 20.75
ATOM	2020	СВ	ALA A		56.031	32.952	22.484	1.00 13.67
ATOM	2021	N	LYS A		54.714	32.901	25.268	1.00 19.35
ATOM	2022	CA	LYS A		54.811	32.837	26.720	1.00 18.69
ATOM	2023	C	LYS A		53.850	31.793	27.304	1.00 22.28
ATOM	2023	0	LYS A		54.256			1.00 22.23
							27.306	
ATOM	2025	СВ	LYS A	Z U Z	54.534	34.219	41.300	1.00 21.11

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2026 CG LYS A 262 54.458 34.266 28.817 1.00 27.76 53.851 35.585 29.236 1.00 40.89 53.518 35.633 30.718 1.00 47.24 52.872 36.944 31.071 1.00 52.28

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ATOM 2149 C PRO A 277 52.118 41.826 4.324 1.0 ATOM 2140 O PRO A 277 51.924 40.704 4.793 1.0 ATOM 2141 CB PRO A 277 52.197 42.009 1.841 1.0 ATOM 2142 CG PRO A 277 52.212 40.533 1.493 1.0 ATOM 2143 CD PRO A 277 53.666 40.187 1.689 1.0 ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.233 44.016 7.652 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2140 O PRO A 277 51.924 40.704 4.793 1.0 ATOM 2141 CB PRO A 277 52.197 42.009 1.841 1.0 ATOM 2142 CG PRO A 277 52.212 40.533 1.493 1.0 ATOM 2143 CD PRO A 277 53.666 40.187 1.689 1.0 ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 24.47 0 24.88 0 27.34 0 26.47 0 24.02 0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2141 CB PRO A 277 52.197 42.009 1.841 1.0 ATOM 2142 CG PRO A 277 52.212 40.533 1.493 1.0 ATOM 2143 CD PRO A 277 53.666 40.187 1.689 1.0 ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 24.88 0 27.34 0 26.47 0 24.02 0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2142 CG PRO A 277 52.212 40.533 1.493 1.0 ATOM 2143 CD PRO A 277 53.666 40.187 1.689 1.0 ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 27.34 0 26.47 0 24.02 0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2143 CD PRO A 277 53.666 40.187 1.689 1.0 ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 26.47 0 24.02 0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2143 CD PRO A 277 53.666 40.187 1.689 1.0 ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 24.02 0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2144 N ASP A 278 51.600 42.930 4.845 1.0 ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 24.02 0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2145 CA ASP A 278 50.682 42.893 5.977 1.0 ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 26.81 0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2146 C ASP A 278 49.282 43.040 5.405 1.0 ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 28.35 0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2147 O ASP A 278 49.119 43.320 4.223 1.0 ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 31.68 0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2148 CB ASP A 278 50.917 44.084 6.915 1.0 ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 24.95 0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2149 CG ASP A 278 52.233 44.016 7.652 1.0 ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 28.08 0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2150 OD1 ASP A 278 52.576 42.939 8.171 1.0 ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 26.38 0 30.73 0 33.68 0 34.70 0 35.18
ATOM 2151 OD2 ASP A 278 52.906 45.062 7.748 1.0	0 30.73 0 33.68 0 34.70 0 35.18
	0 33.68 0 34.70 0 35.18
	0 34.70 0 35.18
	0 35.18
ATOM 2155 O GLY A 279 47.509 45.293 6.242 1.0	
	0 36.64
	0 35.76
	0 33.70
ATOM 2159 O THR A 280 45.812 45.568 8.913 1.0	
ATOM 2160 CB THR A 280 43.440 46.366 6.870 1.0	
ATOM 2161 OG1 THR A 280 42.885 45.307 7.655 1.0	
	0 44.47
	0 44.47
	0 32.57
	0 30.86
	0 32.87
ATOM 2168 CG PRO A 281 46.896 49.792 7.760 1.0	
ATOM 2169 CD PRO A 281 45.788 48.859 7.397 1.0	
ATOM 2170 N ARG A 282 44.684 48.107 10.738 1.0	
	0 32.80
ATOM 2172 C ARG A 282 42.470 47.508 11.632 1.0	
ATOM 2173 O ARG A 282 41.882 47.841 10.611 1.0	
ATOM 2174 CB ARG A 282 43.810 49.423 12.528 1.0	
	0 35.87
	0 39.55
	0 40.34
	0 43.71
	0 46.70
	0 42.83
	0 32.33
	0 30.30
	0 29.85
	0 30.61
	0 32.78
	0 42.52
	0 51.26
	0 60.19
	0 65.48
	0 28.22
	0 27.64
	0 25.17
ATOM 2193 O LEU A 284 36.687 48.019 14.602 1.0	0 25.28

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Serial	No.: 10	/090,8	379			
ATOM	2194	СВ	LEU	Α	284	
MOTA	2195	CG	LEU	Α	284	
MOTA	2196	CD1	LEU	Α	284	
ATOM	2197	CD2	LEU	Α	284	
MOTA	2198	N	LEU	Α	285	
ATOM	2199	CA	LEU	Α	285	
ATOM	2200	С	LEU	Α	285	
ATOM	2201	0	LEU	Α	285	
ATOM	2202	CB	LEU	Α	285	
ATOM	2203	CG	LEU	Α	285	
ATOM	2204	CD1	LEU	Α	285	
ATOM	2205	CD2	LEU	Α	285	
ATOM	2206	N	ASP	Α	286	
ATOM	2207	CA	ASP	Α	286	
ATOM	2208	С	ASP	Α	286	
ATOM	2209	0	ASP	Α	286	
ATOM	2210	СВ	ASP	Α	286	
ATOM	2211	CG	ASP	Α	286	
MOTA	2212	OD1	ASP	Α	286	
ATOM	2213	OD2	ASP	Α	286	
MOTA	2214	N	VAL	Α	287	
MOTA	2215	CA	VAL	Α	287	
MOTA	2216	С	VAL	Α	287	
MOTA	2217	0	VAL	А	287	
ATOM	2218	CB	VAL	Α	287	
ATOM	2219	CG1	VAL	Α	287	
MOTA	2220	CG2	VAL	Α	287	
MOTA	2221	Ν	THR	А	288	
MOTA	2222	CA	THR	А	288	
MOTA	2223	С	THR	Α	288	
MOTA	2224	0	THR	Α	288	
MOTA	2225	СВ	THR	Α	288	
ATOM	2226	OG1	THR	A	288	
ATOM	2227	CG2	THR	A	288	
ATOM	2228	N	ARG	A	289	
MOTA	2229	CA	ARG	A	289	
ATOM	2230	С	ARG	A	289	
ATOM	2231	0	ARG	A	289	
ATOM	2232	CB	ARG			
ATOM	2233	CG	ARG		289	
MOTA	2234 2235	CD	ARG	A	289 289	
ATOM	2236	NE	ARG	A		
ATOM ATOM	2237	CZ NH1	ARG	A	289 289	
ATOM	2237	NH1 NH2	ARG	A A	289	
ATOM	2239	N	ARG LEU	A	290	
ATOM	2240	CA	LEU	A	290	
ATOM	2241	C	LEU	A	290	
ATOM	2241	0	LEU		290	
ATOM	2242	СВ	LEU	A	290	
ATOM	2244	CG	LEU	A	290	
ATOM	2245	CD1	LEU	A	290	
ATOM	2246	CD2	LEU	А	290	
ATOM	2247	N	HIS	A		
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2248 CA HIS A 291

2249 C HIS A 291

3 a n g a	47.003	16.581	1.00 30.86	
	48.488			
39.489	48.700	18.333	1.00 28.99	
39.823	49.295	15.925	1.00 33.77	
36.039	46.512	16.147	1.00 25.67	
34.654	46.956	16.235	1.00 25.49	
34.430	48.072	17.249	1.00 26.97	
35.143	48.183	18.243	1.00 29.98	
33.749	45.775			
	44.551			
	43.571			
	44.969		1.00 19.07	
33.443	48.908	16.966	1.00 25.74	
33.043	49.970	17.865	1.00 25.02	
31.951	49.235	18.655	1.00 23.02	
30.944	48.810	18.085	1.00 27.87	
32.444			1.00 29.67	
	52.356		1.00 30.80	
	52.211			
	53.475			
	49.020	19.946	1.00 28.04	
31.216	48.300	20.772	1.00 26.46	
30.351	49.170	21.685	1.00 28.22	
29.706	48.663	22.604	1.00 28.73	
31.921	47.203	21.592	1.00 28.80	
	46.085	20.673	1.00 27.14	
	47.796			
	50.469			
	51.457			
28.095	51.009	22.403	1.00 29.89	
27.609	51.082	23.523	1.00 33.99	
29.464	52.773	21.351	1.00 30.33	
30.765	53.362	21.300	1.00 30.33	
28.485	53.745	21.986	1.00 31.25	
27.422	50.563	21.349		
26.041				
		22.401		
		23.225		
25.596	49.684	19.998	1.00 28.19	
24.106	49.499	19.794	1.00 30.70	
23.759	49.032	18.368	1.00 30.53	
23.427	50.119	17.435	1.00 28.79	
22.697	49.958	16.325	1.00 33.43	
22.223	48.758	16.002	1.00 26.37	
22.416	50.997	15.541	1.00 27.95	
26.815	48.005	22.353	1.00 28.72	
26.760	46.863	23.256	1.00 29.86	
26.981	47.270	24.720	1.00 32.12	
26.317	46.758	25.625	1.00 29.96	
27.796	45.818	22.850	1.00 27.37	
27.847	44.589	23.754	1.00 28.20	
26.529	43.829	23.669	1.00 24.01	
29.039	43.716	23.383	1.00 30.47	
27.944	48.160		1.00 30.47	
	48.633		1.00 35.25	
27.086	49.391	26.881	1.00 38.47	

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Art Unit: 16

2306 C HIS A 297 34.381 40.981 29.646 1.00 34.68 2307 0 HIS A 297 34.793 41.939 30.301 1.00 34.73 2308 CB HIS A 297 34.546 41.131 27.153 1.00 30.86 2309 CG HIS A 297 35.690 42.092 27.201 1.00 28.35 2310 ND1 HIS A 297 35.690 42.092 27.201 1.00 28.35 2310 ND1 HIS A 297 37.021 41.888 27.346 1.00 26.24 2312 CE1 HIS A 297 37.021 41.888 27.346 1.00 26.24 2312 CE1 HIS A 297 37.021 41.888 27.346 1.00 26.24 2312 CE1 HIS A 297 36.707 44.042 27.090 1.00 27.00 29.18 2313 NE2 HIS A 297 37.631 43.166 27.270 1.00 29.09 2313 NE2 HIS A 298 34.576 39.712 30.001 1.00 36.49 2315 CA GUU A 298 35.640 38.670 31.025 1.00 38.33 2317 O GUU A 298 37.541 38.820 31.854 1.00 40.37 2318 CB GUU A 298 34.401 38.496 32.118 1.00 40.37 2319 CG GUU A 298 37.541 38.820 31.854 1.00 40.37 32310 CB GUU A 298 32.207 39.252 20.20 GUU A 298 32.207 38.205 20.601 1.00 54.47 2322 CE2 GUU A 298 32.207 38.205 20.601 1.00 54.47 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.677 38.215 34.757 1.00 69.61 2322 CE2 GUU A 298 32.969 39.85 38.013 28.887 1.00 24.90 2322 CE2 GUU A 298 32.969 39.85 38.013 28.887 1.00 24.90 2323 CE2 GUE A 299 39.85 38.013 28.882 1.00 30.13 2326 CE GUE A 299 39.85 38.013 28.887 1.00 24.90 2323 CE GUE A 299 39.85 38.017 37.22 29.623 1.00 29.73 2335 CE GUE A 299 39.85 38.013 28.887 1.00 29.73 2337 N LEU A 301 44.427 35.758 26.430 1.00 29.20 2333 N LEU A 301 44.427 35.758 26.430 1.00 29.20 2333 N LEU A 301 44.427 35.758 26.430 1.00 29.27 2338 CA LEU A 301 44.427 35.758 26.430 1.00 29.27 2338 CA LEU A 301 44.427 33.839 23.342 1.00 61.33 2344 CD2 LEU A 301 44.427 35.88 299 1.00 MOTA MOTA MOTA ATOM ATOM ATOM ATOM ATOM ATOM ATOM MOTA MOTA MOTA MOTA ATOM ATOM MOTA Ν ATOM MOTA MOTA ATOM MOTA MOTA ATOM N MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA ATOM ATOM ATOM ATOM MOTA MOTA MOTA MOTA MOTA ATOM MOTA MOTA ATOM ATOM MOTA MOTA MOTA MOTA MOTA ATOM ATOM ATOM

42.295 31.222 26.256 1.00 26.25

43.869 32.826 26.313 1.00 21.49

Serial No.: 10/090,879									
ATOM	2362	0	GLY	Α	304				
MOTA	2363	N	LEU	Α	305				
ATOM	2364	CA	LEU	Α	305				
ATOM	2365	С	LEU	А	305				
MOTA	2366	0	LEU	Α	305				
MOTA	2367	СВ	LEU	Α	305				
MOTA	2368	CG	LEU	Α	305				
MOTA	2369	CD1	LEU	Α	305				
MOTA	2370	CD2	LEU	Α	305				

44.838 32.028 45.334 30.869 45.514 29.749 25.951 1.00 25.77 46.013 32.890 33.845 45.767 47.020 34.674 45.395

25.108 1.00 20.66 23.932 1.00 21.57 23.696 1.00 21.15 33.060 22.671 1.00 18.05 27.730 1.00 24.54

25.575 1.00 23.50

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ATOM 2371 N ALA A 306 ATOM 2372 CA ALA A 306 2373 C ALA A 306 MOTA 0 ALA A 306 MOTA 2374 2375 CB ALA A 306 MOTA 2376 N SER A 307 MOTA

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45.960 30.097 28.644 1.00 23.79 44.933 28.971 28.757 1.00 25.59 45.272 27.797 28.577 1.00 25.94 46.253 30.706 30.003 1.00 23.60 43.670 29.317 28.997 1.00 24.96 42.639 28.287 29.114 1.00 27.12 42.399 27.528 27.812 1.00 26.46

45.499 31.125

42.161 26.321 27.826 1.00 29.90

MOTA 2379 O SER A 307 2380 CB SER A 307 MOTA MOTA MOTA ATOM

2377 CA SER A 307

2378 C SER A 307

41.323 28.877 29.630 1.00 28.44

ATOM ATOM MOTA MOTA MOTA

2406 CG GLN A 310

44.298 23.620

30.707 1.00 50.41

 2406
 CG
 GLN A 310
 44.298
 23.620
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 1.00 50.41

 2407
 CD
 GLN A 310
 45.710
 23.086
 30.805
 1.00 58.52

 2408
 OE1 GLN A 310
 45.917
 21.874
 30.906
 1.00 63.71

 2409
 NE2 GLN A 310
 46.698
 23.985
 30.725
 1.00 57.85

 2410
 N TRP A 311
 42.729
 23.553
 26.924
 1.00 31.37

 2411
 CA TRP A 311
 41.740
 22.736
 26.232
 1.00 31.73

 2412
 C TRP A 311
 42.400
 21.992
 25.075
 1.00 32.46

 2413
 O TRP A 311
 40.587
 23.601
 25.703
 1.00 30.57

 2415
 CG
 TRP A 311
 39.517
 22.801
 25.001
 1.00 29.79

 2416
 CD1 TRP A 311
 38.413
 22.237
 25.573
 1.00 27.34

 2417
 CD2 TRP A 311
 39.480
 22.432
 23.612
 1.00 28.75

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ATOM	2418	NE1	TRP	Α	311
ATOM	2419	CE2	TRP	Α	311
ATOM	2420	CE3	TRP	A	311
ATOM	2421	CZ2	TRP	Α	311
ATOM	2422	CZ3	TRP	A	311
ATOM	2423	CH2	TRP	A	311
ATOM	2424	N	PHE	A	312
ATOM	2425	CA	PHE	A	312
ATOM	2426	С	PHE	A	312
ATOM	2427	0	PHE	А	312
ATOM	2428	СВ	PHE	Α	312
MOTA	2429	CG	PHE	Α	312
ATOM	2430	CD1	PHE	Α	312
MOTA	2431	CD2	PHE	Α	312
MOTA	2432	CE1	PHE	Α	312
ATOM	2433	CE2	PHE	Α	312
ATOM	2434	CZ	PHE	Α	312
ATOM	2435	N	LEU	Α	313
ATOM	2436	CA	LEU	А	313
ATOM	2437	C	LEU	A	313
ATOM	2438	0	LEU	A	313
ATOM	2439	CB	LEU	A	313
ATOM	2440	CG	LEU	Α	313
	2441	CD1	LEU		313
ATOM				A	
ATOM	2442	CD2	LEU	A	313
ATOM	2443	N	GLU	A	314
ATOM	2444	CA	GLU	Α	314
ATOM	2445	С	GLU	А	314
ATOM	2446	0	GLU	А	314
ATOM	2447	СВ	GLU	Α	314
ATOM	2448	CG	GLU	Α	314
ATOM	2449	CD	GLU	Α	314
ATOM	2450	OE1	GLU	Α	314
MOTA	2451	OE2	GLU	Α	314
ATOM	2452	N	ASN	Α	315
ATOM	2453	CA	ASN	Α	315
ATOM	2454	С	ASN	Α	315
ATOM	2455	0	ASN	Α	315
ATOM	2456	СВ	ASN	А	315
ATOM	2457	CG	ASN	A	315
ATOM	2458	OD1	ASN	Α	315
ATOM	2459	ND2	ASN	A	315
ATOM	2460	N	GLN	A	316
	2461				
ATOM		CA	GLN	A	316
ATOM	2462	С	GLN	A	316
ATOM	2463	0	GLN	A	316
ATOM	2464	СВ	GLN	А	316
ATOM	2465	CG	GLN	А	316
ATOM	2466	CD	GLN	А	316
MOTA	2467	OE1	GLN	А	316
ATOM	2468	NE2	GLN	Α	316
MOTA	2469	N	ASP	А	317
ATOM	2470	CA	ASP	А	317
ATOM	2471	С	ASP	А	317
ATOM	2472	0	ASP	А	317
ATOM	2473	СВ	ASP	Α	317

37.700 21.534 24.634 1.00 30.55 38.332 21.635 23.423 1.00 28.31 40.309 22.692 22.513 1.00 28.78 37.990 21.094 22.182 1.00 27.50 1.00 28.41 20.818 21.361 21.124 1.00 28.72 43.236 22.700 24.314 1.00 34.36 43.937 22.099 23.183 1.00 31.18 44.772 20.900 23.632 1.00 31.72 44.818 19.889 22 007

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HETATM 2524 O1N NDP 350 33.062 28.877 14.499 1.00 49.09
HETATM 2525 O2N NDP 350 30.824 28.053 15.546 1.00 44.22
HETATM 2526 O5D NDP 350 30.825 29.778 13.588 1.00 49.81
HETATM 2527 C5D NDP 350 29.393 30.023 13.765 1.00 49.70
HETATM 2528 C4D NDP 350 29.117 31.490 13.397 1.00 52.69
HETATM 2529 O4D NDP 350 29.878 32.322 14.321 1.00 51.50

HETATM	2530	C3D	NDP	350	29.670	31.869	12.01/	1.00	53.64	C
HETATM	2531	03D	NDP	350	28.765	31.573	10.919	1.00	51.66	0
HETATM	2532	C2D	NDP	350	29.951	33.358	12.131	1.00	54.32	С
HETATM		02D		350	28.803	34.072	11.689		58.59	0
HETATM		C1D		350	30.257	33.550	13.670		53.87	C
HETATM		N1N		350	31.701	33.821	13.853		53.91	N
						32.699			55.72	
HETATM		C2N		350	32.548		13.879			С
HETATM		СЗИ		350	33.904	32.883	14.335		57.36	С
HETATM		C7N		350	34.932	31.902	13.841		57.68	С
HETATM	2539	07N	NDP	350	36.173	32.209	13.678	1.00	58.57	0
HETATM	2540	N7N	NDP	350	34.582	30.620	13.539	1.00	56.32	N
HETATM	2541	C4N	NDP	350	34.388	34.223	14.153	1.00	57.26	С
HETATM	2542	C5N	NDP	350	33.577	35.299	14.101	1.00	55.62	С
HETATM		C6N	NDP	350	32.217	35.102	13.986	1.00	56.29	С
HETATM		P2B		350	28.778	19.751	11.391		61.04	Р
HETATM		01X		350	30.173	20.260	11.720		63.55	0
HETATM		02X		350	28.332	18.492	12.112		66.12	0
HETATM		03X		350	28.490	19.771	9.895		62.71	0
HETATM		0	НОН	403	16.364	46.066	6.360		16.76	0
HETATM		0	НОН	404	61.658	40.109	15.137		25.68	0
HETATM		0	НОН	405	37.036	37.869	25.560		23.88	0
HETATM		0	НОН	406	29.274	45.590	4.227		23.86	0
HETATM	2552	0	HOH	407	21.659	46.241	9.524	1.00	18.71	0
HETATM	2553	0	HOH	408	11.646	48.055	2.386	1.00	22.28	0
HETATM	2554	0	HOH	409	29.268	46.086	1.340	1.00	23.26	0
HETATM	2555	0	HOH	410	40.720	27.171	4.788	1.00	30.74	0
HETATM	2556	0	HOH	411	40.024	37.346	25.219	1.00	28.20	0
HETATM	2557	0	НОН	412	13.789	45.247	5.947	1.00	17.51	0
HETATM	2558	0	HOH	413	8.740	48.583	12.146	1.00	44.45	0
HETATM		0	НОН	414	55.988	44.603	15.223		28.70	0
HETATM		0	НОН	415	17.945	32.383	25.916		35.81	0
HETATM		0	НОН	416	40.988	42.346	21.737		34.12	0
HETATM		0	НОН	417	33.297	44.433	25.856		27.77	0
HETATM		0	НОН	418	40.288	42.308	14.121		27.88	0
HETATM		0	НОН	419	14.468	45.184	12.733		28.94	0
			НОН						23.93	0
HETATM		0		420	21.811	49.737	2.572			
HETATM		0	НОН	421	28.028	47.151	19.950		27.75	0
HETATM		0	НОН	422	55.299	38.921	30.122		29.39	0
HETATM		0	НОН	423	20.340	42.878	17.338		21.51	0
HETATM		0	НОН	424	18.265	41.950	13.529		23.62	0
HETATM		0	НОН	425	60.926	36.251	20.554		25.83	0
HETATM		0	НОН	426	61.735	26.288	23.079		26.19	0
HETATM		0	HOH	427	9.903	49.531	16.011		35.06	0
HETATM	2573	0	HOH	428	4.961	38.941	16.431	1.00	72.15	0
HETATM	2574	0	HOH	429	25.390	31.475	12.011	1.00	42.29	0
HETATM	2575	0	HOH	430	24.616	36.303	29.371	1.00	39.49	0
HETATM	2576	0	HOH	431	52.396	40.887	10.716	1.00	28.82	0
HETATM	2577	0	HOH	432	28.532	50.476	18.635	1.00	26.51	0
HETATM		0	НОН	433	24.605	31.137	8.299		37.60	0
HETATM		0	НОН	434	53.396	32.965	9.078		31.80	0
HETATM		0	НОН	435	8.764	28.089	0.894		66.40	0
HETATM		0	НОН	436	50.045	45.833	20.737		51.41	0
HETATM		0	НОН	437	28.349	27.038	16.112		28.33	0
HETATM		0	НОН	438	48.580	49.249	12.510		49.01	0
HETATM		0	НОН	439	27.644	51.002	30.138		83.71	0
HETATM				440	14.915	37.706	20.160		31.14	0
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HETATM	2586	0	НОН	441		58.871	26.341	28.966	1.00	27.42	0
HETATM	2587	0	HOH	442		30.055	29.232	27.254	1.00	30.49	0
HETATM	2588	0	HOH	443		59.252	29.056	11.253	1.00	37.17	0
HETATM	2589	0	HOH	444		41.062	29.095	19.502	1.00	22.79	0
HETATM	2590	0	HOH	446		27.525	20.951	22.129	1.00	30.42	0
HETATM	2591	0	HOH	447		34.990	42.374	4.139	1.00	34.41	0
HETATM	2592	0	HOH	448		39.767	54.716	10.592	1.00	67.76	0
HETATM	2593	0	HOH	449		6.617	46.118	12.631	1.00	39.16	0
HETATM	2594	0	HOH	450		47.753	26.797	29.529	1.00	39.09	0
HETATM	2595	0	HOH	451		53.355	49.057	15.729	1.00	65.17	0
HETATM	2596	0	HOH	452		57.253	36.231	24.352	1.00	29.82	0
HETATM	2597	0	HOH	453		63.541	27.548	33.259	1.00	49.37	0
HETATM	2598	0	НОН	454		60.669	39.031	18.870	1.00	37.60	0
HETATM	2599	0	HOH	455		14.756	48.579	16.040	1.00	39.67	0
HETATM	2600	0	НОН	456		32.995	53.473	11.966	1.00	32.90	0
HETATM	2601	0	НОН	457		13.273	46.305	15.112	1.00	40.63	0
HETATM	2602	0	НОН	458		1.875	40.301	5.309	1.00	70.50	0
HETATM	2603	0	HOH	459		53.220	19.321	26.913	1.00	56.37	0
HETATM	2604	0	HOH	460		49.920	28.952	30.026	1.00	30.71	0
HETATM	2605	0	HOH	461		33.278	33.241	0.845	1.00	26.77	0
HETATM	2606	0	НОН	462		20.158	49.720	6.382	1.00	47.64	0
HETATM	2607	0	НОН	464		31.011	22.374	24.615	1.00	67.95	0
HETATM	2608	0	HOH	466		9.539	39.483	21.846	1.00	44.82	0
HETATM	2609	0	НОН	467		13.095	16.160	15.545	1.00	68.91	0
HETATM		0	НОН	468		42.058	33.585	15.357	1.00	38.91	0
HETATM	2611	0	НОН	469		55.397	43.765	6.085	1.00	41.18	0
HETATM	2612	0	НОН	470		39.929	31.499	15.426	1.00	36.87	0
HETATM	2613	0	HOH	471		44.997	38.774	11.125	1.00	86.77	0
HETATM	2614	0	HOH	472		63.543	26.568	21.038	1.00	37.23	0
HETATM	2615	0	НОН	473		42.546	49.571	8.745		52.97	0
HETATM		0	НОН	474		21.212	22.331	14.333		32.02	0
HETATM		0	НОН	475		63.713	36.784	22.124	1.00	40.38	0
HETATM	2618	0	HOH	476		50.517	20.177	31.519		45.57	0
HETATM	2619	0	HOH	477		55.053	22.111	23.811	1.00	33.79	0
HETATM	2620	0	HOH	478		25.984	21.019	15.400	1.00	42.73	0
HETATM	2621	0	HOH	479		8.324	32.438	20.518		45.08	0
HETATM		0	HOH	480		10.617	41.969	25.986		65.97	0
HETATM		0	НОН	481		33.575	31.406	6.991		49.37	0
HETATM		0	НОН	482		37.161	42.218	13.370		49.73	0
HETATM		0	НОН	483		32.721	33.623	10.991		45.67	0
HETATM		0	НОН	484		31.049	25.089	9.313		34.65	0
HETATM		0	НОН	485		23.886	20.648	13.709		38.09	0
HETATM		0	НОН	486		20.562	19.884	12.878		38.07	0
HETATM		0	НОН	487		20.762	21.629	17.045		41.39	0
HETATM		0	НОН	488		25.825	18.437	13.712		48.25	0
HETATM		0	НОН	489		34.918	37.720	12.567	1.00	37.51	0
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